# AGRICULTURAL OUTTLOOK

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Fruits of the CATT Accord

# AGRICULTURAL OUTLOOK



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# GATT Impacts . . . Fruit & Vegetable Consumption . . . Shifts in Corn Use . . . & State Ag Credit Ventures

### GATT To Improve Farm Income

The Uruguay Round (UR) agreement signed last spring will broaden opportunities substantially for U.S. agricultural exports. Increased world demand, expanded access to markets, and reductions in subsidized competition are projected to increase U.S. agricultural exports by \$1.6-\$4.7 billion in 2000, according to a USDA study released last spring. The study projects a rise in exports of \$4.7-\$8.7 billion in 2005. Increased exports will raise farm prices, increase farm income, and lower government outlays on price and income support programs. Farm income is expected to rise by \$1.1-\$1.3 billion in 2000, while government outlays decline nearly the same amount. In 2005, farm income is projected to increase \$1.9-\$2.5 billion, and government outlays could decline by \$2-\$2.6 billion.

# . . . & Alter Export Programs

Another principal result of the UR agreement will be a reduction in agricultural export subsidies worldwide. Exports under some U.S. programs will be phased down. For example, by the end of a 6-year phase-down period, U.S. exports shipped under the Export Enhancement Program, the Dairy Export Incentive Program, and the Sunflowerseed Oil and Cottonseed Oil Assistance Programs would be reduced on a commodity basis by 21 percent in volume and 36 percent in value from the 1986-90 base.

# Corn Market Sees Changes

Domestic use of corn in 1994/95 is expected to exceed 7 billion bushels, up from 4.9 billion 14 years earlier. Corn use in the U.S. has changed significantly over the last decade and a half. The most important changes have been the emergence of several new industrial uses of cornstarch, greater use of corn sweetener in drinks, expanded use of corn for fuel alcohol, and a decline in exports. Feed use of corn continues to expand. Feed and residual use in 1994/95 is forecast to account for 62 percent of total domestic



and export use of corn, up from 57 percent in 1980/81. In contrast, exports have dropped from nearly a third of total use in 1980, to less than a fifth in 1994/95. Corn used for fuel alcohol has increased from less than 1 percent of total use 14 years ago, to an expected 6 percent, or 510 million bushels, in 1994/95. The manufacture of starch accounts for 3 percent of forecast total corn use in 1994/95, up from 2 percent in 1980/81. The starch is used to make such diverse products as sweeteners and disposable forks and spoons.

### The New Cornucopia

U.S. consumers have increasingly embraced the well-known adage about the virtues of eating fruits and vegetables. Today, per capita use is a fifth higher than in 1980, and is likely to continue expanding into the next decade as consumers heed nutritionists' advice on healthful eating. Moreover, the mix has changed. Consumption shifts have occurred among traditional produce items and between fresh and processed forms. Further gains in fruit and vegetable use into the next decade are likely for several reasons. The population is aging, and older

people consume more fruits and vegetables. And the array of consumer choicesal continues to expand.

### Salmon Recovery Measures

Salmon populations in the Columbia and Snake Rivers of the Pacific Northwest have declined precipitously over the last few decades, and several salmon runs have been listed as endangered. A potential Federal recovery plan involving changes in river system management may affect water use throughout the Pacific Northwest. Agriculture, which accounts for nearly 3 percent of the jobs and total output in the region, is among the sectors potentially affected.

Two recovery measures being considered-reservoir drawdown and flow augmentation in the Snake River Basinhave the greatest potential impact on crop agriculture. According to a study by USDA's Economic Research Service, producer profits fall about 3 percent, or by \$30-35 million under a flow augmentation strategy, with losses concentrated among Upper Snake producers due to reduced irrigation supplies. For the Pacific Northwest economy, the impacts are small, although a large reduction of irrigation water could alter cropping patterns and slightly increase unemployment in the Upper Snake subregion.

### State Ag Credit Programs

Many states have begun accelerating their use of small, innovative agricultural credit programs. Most state programs began after 1978 and have provided credit assistance to serve widely varying needs. But in the last 5 years, several types of programs have become more prominent-in particular, a resurgence of assistance to beginning farmers, encouragement of environmental improvements, and promotion of new and alternative crops. During 1993-94, 32 states had 81 agricultural credit programs in place, assisting more than 31,000 farmer-borrowers, and showing a total outstanding loan balance of \$1.8 billion.



Feed use of corn is projected to be up 11 percent in 1994/95 from last year and virtually the same as in 1992/93. Food, seed, and industrial use is up over 8 percent from last year. Estimates for food, seed, and industrial use fell slightly from last month due to delay in implementing the renewable fuels mandate.

Sorghum and oat crops are expected larger this year, while barley is expected to yield a smaller crop. Nearly 70 percent of the sorghum crop had already been harvested by October 16, well ahead of last year. The barley harvest was in its final stages as of the end of September.

The 1994 soybean crop is projected to be 2.45 billion bushels, a record, up nearly 32 percent from last year. Both yield and area are up from 1993. Sixty-four percent of the crop had been harvested as of October 16, and was far ahead of schedule in Midwest states such as Illinois, Indiana, Missouri, and Ohio.

Soybean crush is projected up 6 percent from 1993/94, due to the increased crop size, lower prices, and greater livestock feeding. All other major components of demand are expected higher as well, with the greatest percentage change coming in the ending stocks category. Soybean ending stocks in 1994/95 are projected to be

# Field Crops Overview

# Domestic Outlook: October Projections for 1994/95

On September 30, the Department of Agriculture announced the preliminary acreage reduction program (ARP) for feed grains. The 1995/96 corn ARP was set at 7.5 percent, up from zero for 1994/95. The set-asides for barley and sorghum will remain at zero due to low stocks. The feed grain ARP's may be revised by USDA on or before November 15, if supply and demand conditions warrant a change. A zero ARP was established by the 1990 Farm Act for oats. A final zero set-aside for the 1995/96 wheat crop had been announced on August 1.

The 1994 corn crop is projected to be more than 9.6 billion bushels, up more than 50 percent from last year's flood damaged-crop. Forty percent of the corn crop was reported harvested by October 16, well ahead of last year but near normal progress.

### U.S. Field Crops-Market Outlook at a Giance

	A	193			Total	Domestic		Ending	Farm
	Planted	Harveste	d Yield	Output	supply	US0	Exports	stocks	price
	-Mil	acres —	Bułacre	_		- Mil. bu			\$/bu
Wheat									
1993/94	72.2	62.7	38.3	2,403	3,041	1,243	1.228	570	3.26
1994/95	70.5	61.7	37.6	2,320	2,970	1,207	1,250	513	3.25-3 65
Com									
1993/94	73.3	63.0	100.7	6.344	8,478	6.303	1.325	850	2.50
1994/95	78.8	71.8	133.8	9,602	10,457	7,010	1.625	1.822	1 90-2 30
Sorghum									
1993/94	10,5	9.5	59.9	568	743	495	200	48	2.31
1994/95	10.2	9.3	68.9	640	688	400	215	85	1 70-2 10
Dest									
Barley 1993/94	7 a	6.8	58.9	400	623	418	66	139	1.99
1994/95	7.2	6.7	56.2	375	579	390	60	129	1 85-2.15
Oats 1993/94	7.9	3.6	54,4	206	426	318	2	106	1.38
1993/94	6.6	4.0	57.2	200	415	300	3	113	1.15-1.35
*******	4.0	~.0	VI		4,4		_		***************************************
Soybeans									
1993/94	60 1	57.3	32.6	1.869	2,167	1,365	593 740	209 485	6.40
1994/95	61.8	60.7	40.5	2.458	2.672	1,487		400	4.60-5.30
			Lb/acre		— Mil	awt (rough e	qunt) —		Scwi
Rice									
1993/94	2.92	2.83	5,510	156.1	202.5	97.0	79,4	26.0	8 08
1994/95	3 36	3.25	5.926	192 3	226 3	102.0	81.0	43.3	5.25-6.75
						Mil baies			¢16
Cotton									
1993/94	13_4	12.8	606	16.2	20.8	10.4	6.9	3.5	59.00
1994/95	14.1	13.4	690	19.3	22.8	11.0	7.0	4.9	

Based on October 12, 1994 World Agricultural Supply and Demand Estimates. U.S. marketing years for exports

\* USOA is prohibited from publishing cotton price projections.

See table 17 for complete definition of terms

up more than 120 percent from last year's low levels. Soybean prices are expected to average \$4.60 to \$5.30 in 1994/95, down from \$6.40 last year.

Total wheat production in 1994 was 3.5 percent smaller than last year. Food use and exports are projected to increase slightly from last year, but the smaller crop and reduced imports mean use will exceed production plus imports, dropping ending stocks from carrying levels.

Seeding for the 1995 winter wheat crop is well underway in many states, and is practically completed in the hard winter wheat producing area of Colorado, Nebraska, and South Dakota. Seventy-eight percent of the crop had been planted, nearly matching normal progress by October 16.

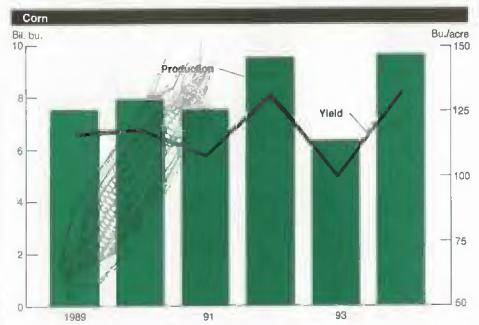
As with barley, the spring wheat harvest is nearly completed. Early assessments of the quality of the crop are good—both test weight and protein content are much improved over last year's crop. The average farm-level wheat price has risen 3 percent since September, due to tightening U.S. and global supplies.

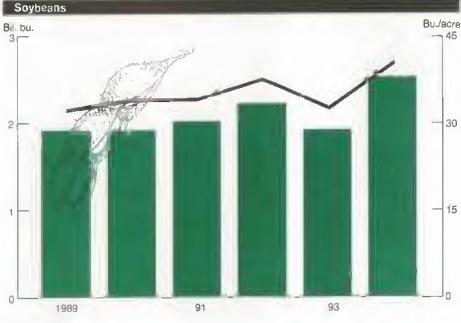
Big increases are expected for cotton and rice crops. U.S. cotton production is expected to reach 19.3 million bales in 1994/95, the largest production in over half a century, and up more than 3 million from last year. The larger crop results from yield gains in the Delta and southeastern states. The crop condition in both regions was rated as fair to good in the first week of October.

Final 1993/94 data released by the Bureau of the Census found that cotton consumption totaled 10.42 million bales, 1.6 percent above the previous year's total. Cotton consumption is forecast to rise again in 1994/95, to about 11 million bales. U.S. cotton exports are down from earlier estimates but still exceed 1993/94 exports by about 2 percent.

The 1994/95 rice crop is projected to exceed 192 million cwt, a record, up 23 percent from last year. Average yield is projected to be a record, and area is up as







1994 forecast

# Crop Insurance Reform Passed by Congress

Responding to large budgetary outlays, a sometimes overlapping system of crop insurance and disaster assistance, and relatively low crop insurance participation, Congress passed crop insurance reform legislation the first week in October. To cut costs while making the crop insurance program more attractive to farmers, the reform act, in effect for 1995 crops, makes it more difficult for Congress to enact ad hoc disaster legislation for agricultural crop losses. Instead, catastrophic crop insurance coverage would kick in as the Federal response to emergencies involving crop disasters.

Catastrophic crop insurance coverage will protect farmers from individual yield losses of more than 50 percent at a payment rate of 60 percent of the expected market price—a level comparable to disaster relief programs in recent years. To receive coverage, a farmer will need to pay a processing fee of \$50 per crop per county, up to a maximum of \$600 per producer for all counties in which a producer has insured crops.

Farmers will be able to purchase catastrophic coverage either through a private company or through a USDA county office. They will also be able to purchase coverage providing higher yield or price protection levels for an added cost. Subsidies will be provided to encourage farmers to "buy up" to higher coverage levels.

To ensure widespread participation, crop insurance reform is linked to other agricultural programs. That is, to be eligible for any price support or production adjustment program, the Conservation Reserve Program, and certain FmHA loans, the producer must obtain at least catastrophic coverage for each crop of "economic significance" for which insurance is available. "Economic significance" refers to any crop that is expected to contribute 10 percent or more of the total value of all crops the producer grows.

For crops not currently covered by crop insurance, a "noninsured assistance program" will be in place that provides benefits similar to those under the catastrophic plan for insured crops. To be eligible, an area must suffer a yield loss of more than 35 percent for the given crop. Once this trigger is met, farmers in the area will be paid on individual crop losses in excess of 50 percent at 60 percent of the average market price. This coverage for noninsurable crops is provided at no cost to the producer.

In recent years, the price tag for the crop insurance program has approached \$900 million annually. In addition, ad hoc disaster relief has cost an average \$1 billion per year over the past decade, and more than \$1.5 billion per year over the last 6 years. By streamlining these two programs into one, crop insurance reform is expected to save about \$151 million over \$5-year period.

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well. Overall, harvest is 6 percentage points ahead of normal. Harvesting in Arkansas and Mississippi is well ahead of normal.

Domestic use, exports, and ending stocks of rice are all expected to be higher than last year. Season-average farm price is projected to decline to \$5.25-6.75 per cwt, down from last year's \$8.08. [Stephanie Mercier (202) 219-0751]

# Global Market: Outlook for 1994/95

World wheat production is forecast to be more than 5 percent smaller than last year's crop, causing prices to rise and stocks to tighten. World corn trade is forecast to recover from last year's low level, with expanded U.S. exports accounting for much of this increase. Japan's rice crop is projected to be almost 50 percent above last year's abnormally small crop, reducing Japan's import needs and thus world trade. World cotton production is forecast to rebound from last year's small crop, but little change in trade is expected.

World wheat stocks tighten and prices rise. As estimates for 1994/95 world wheat production continue to decline, global ending stocks, particularly in major exporting countries, are projected tighter. Continued decreases in projections for Australia's supplies are driving this change, as a severe drought pushes production down 47 percent, to 9 million tons, the smallest Australian crop since 1982/83. Continued drought could reduce the crop further.

Australia's exports are projected down 4.75 million tons from last year, to 7.5 million, cutting that country's ending stocks to only 2.7 million tons, the smallest in 5 years. Exports from the U.S., Canada, and Argentina, projected at 34, 20.5, and 5.6 million tons, are expected to gain from Australia's reduced trade. But only Argentina is projected to produce a larger wheat crop this year.

With larger exports and smaller crops, stocks in both the U.S. and Canada are also projected to fall. In addition, stocks in the European Union (EU) were drawn down in 1993/94, in part because of increased wheat feeding following a shift in relative prices of grains and protein meals under Common Agricultural Policy (CAP) reform. Although EU wheat exports have lagged this season, release of intervention stocks into the domestic market to temper price rises has continued to deplete EU intervention stocks. Ending stocks in the major exporting countries in 1994/95 are expected to fall 18 percent from a year earlier.

With exporter ending stocks expected to contract markedly this season, wheat prices have risen sharply. Higher prices in the world market are now expected to reduce world trade as some importers reduce purchases. Other importers, such as Egypt, expecting continued price increases, have recently responded with a flurry of purchasing. But world wheat trade is projected to be 5 percent below last season's already weak levels.

U.S. corn exports are rising as foreign exports contract. Global corn trade in 1994/95 is projected to be 9.5 percent above last year's weak performance. U.S. exports are estimated to be 41.5 million tons, 26.5 percent over last year's low level. Argentina's corn exports are also projected up, to 250,000 tons. And, with a large carryin, South Africa's com exports are expected to remain the same as in 1993/94, at 3 million tons, despite the forecast for reduced outturn this year.

But stronger domestic demand and slower exports during the first quarter of the marketing year are limiting projections for China's corn exports to only 9 million tons in 1994/95, 22 percent less than 1993/94. Reduced production in the EU, particularly in France, and a tight domestic market, are expected to reduce EU exports to only 500,000 tons in 1994/95, down from 2 million last year.

With larger world production, corn prices are expected to fall sharply. As corn prices fall relative to wheat, South Korea is expected to import a record 7 million tons of corn, 1.5 million more than in 1993/94. Mexico's com imports are projected up a similar amount as a result of NAFTA.

World rice production is higher in 1994/95. At 10.7 million tons, Japan's rice production is projected 50 percent above last year's short crop. Japan's

large crop, combined with recently improved prospects for India's production, plus the previously anticipated output gains in Thailand, Burma, and Bangladesh, have pushed expected world production to 352.1 million tons (milled basis), slightly above 1993/94.

Although Japan's rising crop has not resulted in recent changes in forecasts for calendar year 1995 world trade, it is nonetheless influencing world trade. World exports are still projected at 15.1 million tons, down from 15.5 million in calendar 1994.

However, Japan's huge crop is expected to push its calendar 1995 imports to as late in the year as possible. In this case, these imports would occur in the 1995/96 U.S. marketing year rather than 1994/95. U.S. 1994/95 rice export estimates have consequently been reduced slightly, although still above 1993/94. Projected U.S. calendar 1995 exports remain forecast at 2.7 million tons, up 1 million from 1994.

U.S. exports of soybeans and products rise. The strong gains in U.S. production of soybeans this season, combined with currently tight foreign supplies, are aiding U.S. soybean and product exports in 1994/95, particularly in the first half of the year. U.S. exports of soybeans are forecast at 20.1 million tons, up 24 percent from last year; meal and oil exports are projected up 9.6 and 14 percent, to 5.4 and 0.74 million tons.

Although strong production in Brazil and Argentina is still anticipated, planting will not be finished until late December. Export competition from South America, particularly in soy products, is expected to intensify once harvest is underway in April 1995.

World cotton production is forecast to rebound in 1994/95, rising 10.4 million bales to 87 million. Higher prices during 1993/94 are behind the forecast for increased production this year in China, Pakistan, India, Latin America, and West Africa. Production in Australia is hampered by reduced supplies of water for irrigation, and a smaller crop is forecast there.

World Corn Production Rebounds, Stocks To Rise

	Year 1	Production	Exports 2	Consumption <sup>8</sup>	Carryover
			Milk	on tons	
Wheat	1993/94	558.8	98.8	566.7	139,0
	1994/95	532.0	96.8	556.4	114.5
Com	1993/94	467.7	55.4	503.6	68.9
	1994/95	545.9	60.6	527.4	87.5
Barley	1993/94	168.9	17.5	169.1	36.5
	1994/95	161.9	15.0	167.6	30,8
Rice	1993/94	350.3	15.5	355.2	49.9
	1994/95	352.1	15.1	357.5	44,4
Oilseeds	1993/94	227.1	37.1	186.4	20.5
	1994/95	251.4	41.9	197.7	28,6
Soybeans	1993/94	117.0	28.0	99.7	17.8
·	1994/95	131.3	31.7	103.9	24.4
Soybean meal	1993/94	79.1	28.8	<b>78</b> .5	3.7
,	1994/95	82.1	29.0	81.5	3.6
Soybean oil	1993/94	17.9	4.5	18.1	1.3
•	1994/95	18.9	4.5	18.6	1.5
			Mills	on bales	
Cotton	1993/94	76.5	26.6	84.6	29.6
	1994/95	87.0	27.0	86 1	30.2

Marketing years are: wheat, July-June; coarse grains, October-September, diseeds, soybeans, meat, and oil, local marketing years except 8 razit and Argentina adjusted to October-September trade; cotton, August-July. <sup>2</sup> Rice trade is for the second calendar year. All trade now has been inflated to include trade among the countries of the former Soviet Union. In addition, noe trade, like other grain trade, excludes intra-EU trade. Offseed and cotton trade, however, still include intra-EU trade. <sup>3</sup> Crush only for soybeans and offseeds.

Cotton consumption is also forecast higher, as Japan's and Europe's economies rebound. World cotton consumption is forecast to rise 1.6 million bales in 1994/95, to 86.2 million bales. However, world consumption will remain below the record 86.6 million bales used in 1989/90. Lagging Russian consumption is expected to continue depressing world cotton use.

Little change in expected in world and U.S. trade in 1994/95, with world trade remaining just below 27 million bales and U.S. exports reaching 7 million bales, compared with 6.9 million in 1993/94. With China expected to remain a large importer and Pakistan an unusually small exporter, the U.S. is projected again to account for about 26 percent of world trade.

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### Next month in

Agricultural Outlook . . .

NAFTA: 1 Year Later

Impacts on Mexico's economy and U.S. agricultural trade

# Specialty Crops Overview

U.S. citrus production is estimated higher for the 1994/95 season, according to USDA's October Crop Production. The higher supply of fresh-market oranges and grapefruits will contribute to lower produce prices. Tree nut production will be lower this season, but carryin stocks will keep prices from rising sharply. The fall-season fresh vegetable supply could tighten, and keep prices even with the summer-season market. For 1994, despite lower fresh vegetable production, grower prices dropped below a year earlier. Beet sugar prices have risen slightly, following USDA's announcement it would impose domestic marketing allotments for fiscal 1995.

Citrus output is forecast to increase.
U.S. orange production for the 1994/95 season is forecast higher than last season, due mostly to a larger crop of Florida oranges. Navel orange output in California, the major domestic supplier for the fresh market, is expected up 1 percent Prices for fresh-market oranges this winter are expected slightly lower than in 1993/94. Prices for U.S. processing oranges are expected lower, considering Florida's larger crop, but lower processing orange output is expected in Brazil.

- U.S. orange output in 1994/95 is forecast at 11.4 million tons, up 11 percent from last year and 3 percent higher than in 1992/93. Florida's output is forecast at 8.8 million tons, up 13 percent from 1993/94. California's output, at 2.4 million tons, is up 4 percent.
- In the Brazilian state of Sao Paulo, the world's largest producer of orange juice for export, uncertainty about orange production caused orange juice futures prices to soar in mid-October.

Fresh orange and grapefruit consumption in 1995 is expected to increase due to the larger 1994/95 crops. Citrus consumption may be turning around from a slump in the 1980's, but citrus fruits are likely to continue facing strong competition from apples, grapes, bananas, and other noncitrus fruits.

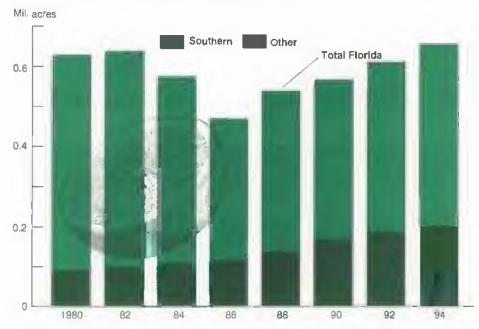
U.S. grapefruit production is estimated higher in 1994/95, due to a large Florida crop. Grower and retail prices for fresh grapefruit are expected below 1993/94 prices. California-Arizona lemon ouptut is down, but prices are expected about the same as last season.

- Florida grapefruit production is forecast at a record 2.4 million tons, up 9 percent, with increases in both the white and colored seedless varieties.
   Output from California's desert area is forecast up 3 percent from last season.
- Texas is expected to produce 144,000 tons of grapefruit, up from 120,000 tons in 1993/94. The Texas grapefruit industry continues to recover from the December 1989 freeze, which destroyed most of its trees. Texas produced as much as 550,000 tons of grapefruit in the early 1980's, mostly for the fresh market.
- Lemon production in California and Arizona, where most of the U.S. crop is grown, is forecast to drop 3 percent from a year earlier. Quality of the new crop is reported good.

Florida citrus acreage continues climbing, especially in southern counties. Florida's citrus acreage in 1994 increased again, continuing a trend started in 1988. Acreage for oranges, grapefruit, and specialty citrus fruits increased 8 percent over the 2 years since the last census. Florida growers also planted more in the south to minimize losses from winter freezes.

 Orange grove area increased to 653,370 acres, up 7 percent. The number of trees per acre increased 12 percent, and the area in bearing





1994 estimate

trees increased 15 percent. The area in bearing trees increased to 78 percent of total orange area from 73 percent in 1992.

- Grapefruit area increased 9 percent to 146,915 acres. The area planted in colored grapefruit varieties increased more than in the white seedless varieties. Area for seedy grapefruit continued to decline.
- Specialty citrus types increased the most—13 percent to 53.457 acres.
   Temples, Dancy tangerines, lemons, and limes continued to decline in acreage, while Sunburst and Honey tangerines continued to show large increases.

Output of most nut crops is expected lower. While the California almond crop is about a third higher than last year, production is expected to fall for walnuts, pecans, and hazelnuts. Larger supplies of California almonds, which were harvested mostly in September, are pressuring grower prices downward. Higher prices are expected for pecans, whose harvest in Georgia will be less than half

of last year's record output. The hazelnut harvest, which got underway in October, will be less than half of last year's.

- Beginning stocks of almonds on July 1, 1994 were the lowest in 7 years. With the larger 1994/95 crop, supplies will be up about 20 percent, pressuring grower prices down from the near-record \$1.90 per pound set last year. To keep prices from plummeting early in the season, the Almond Board of California has requested USDA approval for a 10-percent reserve for the 1994/95 crop.
- The 1994 California walnut crop is forecast off 15 percent from last year's record. Large beginning stocks will make up the difference, so 1994/95 supplies will be about the same as last season's. With tight supplies of pecans, which can substitute for walnuts, grower prices for walnuts should remain near last year's strong showing of \$1.68 a pound.
- The 1994 U.S. pecan crop is forecast to decrease over 40 percent from last season's near-record output. Flooding in Georgia, where one-third of

the U.S. crop is harvested, prevented growers from entering orchards when pecan scab control was critical. A wet summer increased disease damage and reduced yields in Alabama as well. Grower prices are expected to rebound from last season's 5-year low of \$0.58 a pound.

 Hazelnut growers can expect higher prices this season, as nut production is forecast to drop 54 percent to 38 million pounds, and carryin stocks are only moderately high. The hot, dry summer in western Oregon stressed trees in many orchards.

Smaller vegetable supplies are expected for the holiday season. USDA's October Vegetables report estimated lower acreage for harvest of fall-season freshmarket vegetables. Because of continued weak prices for most vegetables, Florida's fall-season vegetable area is 13 percent below last year's. Prices for celery, lettuce, and tomatoes are expected to increase with lower supplies. Cabbage and cucumber acreage are higher this fall, pushing supplies up for the holiday season.

The 1994 total harvested area of freshmarket vegetables decreased from last year. Prices of most fresh vegetables were weak despite indications that production has been lower. The weak demand during most of the year translates to a likely 10-percent reduction in value of production for 1994. Head lettuce prices remained low most of the year. Onion prices were strong during the early months, but came down in the spring as southern states' production and increased imports entered the market. Tomato prices also stayed low even as Florida and California combined to ship about the same volume this year.

Sugar producers face marketing alloments in fiscal 1995. On September 29, USDA announced the imposition of domestic sugar marketing allotments for fiscal 1995. Each U.S. sugarcane and sugarbeet processor is given a specific limit on sales for the year, above which penalties would apply. The USDA must make a quarterly review of the need for sugar marketing allotments—the next

review is due by January 1, 1995. Sugar producing groups lobbied for the imposition of allotments, and indicated they would likely forfeit sugar on September 30 if allotments were not imposed. Industrial sugar users lobbied against the imposition of allotments.

The beet sugar allotment is 4.36 million tons, raw value, and the cane sugar allotment is 3.53 million tons. The allotment for beet sugar is expected to force about 170,000 tons of beet sugar production off the domestic market this year. Since the cane sugar allotment exceeds the cane sugar production forecast, no cane sugar is likely to be held off the market.

Beet sugar prices rose slightly following the allotment announcement. The imposition of allotments is likely to keep prices in the next year from falling below present levels, and could boost them slightly higher. More substantial price increases could come later in the season if allotments prove to be restrictive.

The Commodity Credit Corporation (CCC) acquired about 8,150 tons of forfeited beet sugar from one company in California in early July, and sold it by mid-August. An additional 5,832 tons was forfeited to the CCC at the end of August by two companies in California. In August, a group of companies filed a lawsuit against the USDA regarding the terms and conditions of the CCC's sale of the first lot of forfeited sugar. This case was still pending in mid-October. The second lot of 5,832 tons of sugar has not been sold.

Domestic sugar production prospects for fiscal 1994/95 have risen in the last month to 7.92 million short tons, raw value (including Puerto Rico). Beet sugar production is forecast at a record 4.525 million tons, raw value, up 12 percent from last year and 3 percent more than the record 1992/93 crop. U.S. sugarbeet production is forecast at a record 30 million tons. In Minnesota and eastern North Dakota, the prospect of large sugarbeet crops prompted some factories to begin harvest in late August, the earliest ever for the region.

Cane sugar production is forecast at 3.395 million tons, including 50,000 tons for Puerto Rico, down 4 percent from 1994. Hawaii's production is forecast at 565,000 tons, down 132,000 from last year, due in part to the closing of two mills in September and October 1994 and the planned closing of another mill in March 1995.

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# Livestock, Dairy & Poultry Overview

Although cattle slaughter weights are expected to decline from this summer's record pace, price increases this fall will be muted by seasonally large beef supplies and record supplies of competing meats. The September 1 market hog inventory and farrowing report indicate record park production in 1995 and continuing pressure on hog and park prices. However, with profit margins negative for most producers, farrowings will likely slow.

As Thanksgiving approaches, wholesale turkey prices are the highest in several years. In contrast, shorply higher production and increased supplies of beef and pork are pressuring broiler prices, with the higher priced breast meat dropping the most.

# Cattle Slaughter Up, Weights Increase

Following seasonally large cattle slaughter this summer, at record slaughter weights, the stage is finally set for a seasonal decline in slaughter and an increase in fed cattle prices. However, continued large placements of cattle on feed will keep fed cattle marketings above a year earlier through the winter. The number of cattle on feed on September 1 in the seven monthly reporting states was 5 percent below last year, but 6 percent above 1992 and the second largest for this date since 1978.

Cow slaughter this fall is expected to rise more than seasonally as forage conditions decline and cow culling increases more than seasonally from the lower levels earlier in the year. Although fourth-quarter steer and heifer slaughter is expected to be up only modestly from a year earlier, cow slaughter may rise 5 percent.

Fourth-quarter beef production will also be bolstered by record slaughter weights. Third-quarter dressed slaughter weights, averaging 722 pounds were a record—about 22 pounds above a year earlier, and up about 12 pounds from the 1991 record. Gains in average weights in the fourth quarter will be limited by increased cow slaughter and a smaller seasonal increase in fed slaughter weights. Fed slaughter weights in the fourth quarter could still average 712 pounds—up from 704 last year.

Cattle and beef prices are expected to strengthen slightly this fall as supplies, although larger than a year earlier, begin to decline seasonally. However, fed cattle prices this fall may average only in the upper \$60's per cwt, down about \$3 from a year earlier, as large supplies of beef and competing meats, particularly for processing, hold down seasonal price gains.

Large supplies of processing meats continue to pressure beef trimmings, with 90 percent fresh lean trim prices averaging about \$108 per cwt in September, 17 percent below a year earlier. Increased cow slaughter this fall and an expected pickup in imported beef, will continue to hold down processing beef prices.

U.S. Livestock & Poultry Products-Market Outlook at a Glance

		Beginning		Total			Ending	Cons	umption	Primary
		stocks	Production	Imports	supply	Exports	stocks	Total	Per capita	market price
				- Million	Ibs. — —			1	.bs. — —	\$/cwt
Beet	1994	529	24,220	2,400	27,149	1,510	525	25,114	67 A	68 94
2001	1995	525	24,582	2,485	<b>27</b> ,592	1,590	450	25,552	67.9	65-71
Pork	1994	359	17,480	795	18,634	450	385	17,799	52.9	41.03
, win	1995	385	18.408	775	19,568	480	37.5	18,713	55.1	<b>37-4</b> 0
										¢/lb
Broilers*	1994	358	23.519	0	23,877	2,690	420	20,766	70.0	56.3
0.01010	1995	420	24.544	0	24,964	2,790	390	21,784	72.7	52- <b>5</b> 6
Turkeys	1994	249	4.958	0	5,207	280	245	4.682	17.9	65.0
	1995	245	5.081	0	5.326	305	265	4,756	18.1	59-63
		_			Million doz.			_	No.	¢∕tiloz.
Eggs**	1994	10.7	6,115.8	4.2	6.130.7	185.7	13.0	5,127.3	235.9	68
-33	1995	13.0	6,165.0	4.3	6,182.3	170.0	12.0	5,165.3	235.3	64-69

Based on October 12, 1994 World Agricultural Supply and Demand Estimates
"Cold storage stocks previously classified as "other chicken" are now included with broiler stocks, ""Total consumption does not include eggs used for hatching. See lables 10 and 11 for complete definition of terms

# Pork Production Continues Record Pace

Despite lackluster returns, producers continue to increase the number of hogs kept for breeding. Producers planned to increase the number of sows farrowing by 5 percent from September through February which, if realized, would mean the largest December-February farrowings since 1980. The September 1 market hog inventory and farrowing plans indicate record pork production in 1995 and continuing pressure on hog and pork prices.

Future farrowings will likely be reduced if hog prices remain in the low \$30's per cwt for very long. Profit margins are negative, even for efficient producers. Large low-cost producers and mixed grain-hog enterprises may be the last to terminate expansion. But even for this group, it is only a matter of time before breeding herds will be stabilized or reduced unless prices strengthen.

Barrow and gilt prices dropped sharply after Labor Day as larger slaughter supplies began to fill pipelines and retailers focused on buying beef and poultry. Weekly pork production began rising above year-earlier levels in August, and

that trend is expected to continue at least until late 1995.

Seasonally weaker wholesale prices for loin and rib cuts, and continued price weakness for hams and bellies due to large supplies, will provide a variety of favorably priced cuts of meat for retail featuring this fall. Recent sharp declines in live hog prices should allow modest drops in retail prices as production continues at record levels.

On August 26, the Mexican government announced that, although a previous study found that there was evidence of some U.S. firms dumping pork in Mexico, U.S. pork exports posed no injury or risk of injury to the Mexican pork industry. This effectively ended the threat of Mexico imposing antidumping duties on imports of U.S. pork.

# Egg-Laying Flock Remains Large

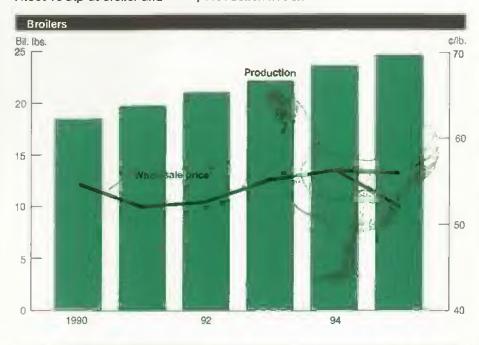
The table-egg production flock has remained larger than earlier anticipated due to substantially lower slaughter this summer. A relatively high 23 percent of the flock has completed a molt, which ex-

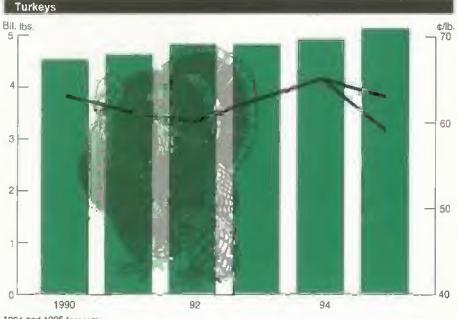
tends the productive life of layer hens. The laying flock has remained larger than last year even though the number of egg-type chicks hatched was down 8 percent during the first half of the year. Expectations of seasonally higher egg prices and lower feed costs in the fourth quarter are probably driving the efforts to maintain flock size.

The number of eggs used for processed products was 13 percent larger than a year earlier in the first half of 1994. Processed use of eggs was low during the first half of 1993 due to relatively high prices for table eggs. In the second half of 1994, processed use of eggs is expected to be above last year's strong levels by nearly 10 percent.

Egg exports are expected to continue strong in the last half of the year, even as wholesale prices rise to near last year's levels. The Export Enhancement Program (EEP) was an important factor in increasing egg exports 20 percent in the first half of 1994 from a year earlier. The majority of table-egg exports are supported by EEP. Exports in the second half of 1994 are expected to be about 15 percent above a year earlier.

Prices To Dip as Broiler and Turkey Production Reach Record





1994 and 1995 forecasts. Season average.

# Broiler Production Expands Sharply

Broiler production in the third quarter was about 9 percent above a year earlier, the strongest increase since early 1992. A relatively cool summer in important poultry areas favored heavier birds and

contributed to the expansion. Fourthquarter production will likely be 6-7 percent above a year ago, reflecting increased hatch. Broiler production for the year is expected to be 6-7 percent higher than last year. Per capita consumption is expected to increase 1.7 pounds to about 70 pounds, another record. Broiler prices are facing intense competition from increased supplies of beef and pork. The higher valued breast meat has been hit the hardest. During the first 9 months of the year, prices for boneless skinless breasts averaged about 7 percent below a year earlier. Most other parts prices have been above last year. Breast meat prices have probably been affected most by competition from red meats and by some substitution of whole birds for breast meat to meet rising demand for rotisserie chicken.

Leg parts have benefited most from the broiler meat export boom and are priced the highest since the mid-1980's. Exports are up 35-40 percent from last year, estimated to reach 2.7 billion pounds, about 11 percent of production.

# Turkey Prices Rise As Thanksgiving Nears

As Thanksgiving approaches, wholesale turkey prices are the highest in a number of years. While many other meat prices have weakened in recent months, turkey prices remain above a year earlier. Slow production growth, about 3 percent this year, and the resulting low stocks, account for much of the price strength. In addition, demand is strong, particularly from export markets.

In late summer, retail whole turkey prices were above a year earlier. However, specials for Thanksgiving are expected to keep retail prices relatively low this fall and near last year's level.

In the fourth quarter, wholesale and retail turkey prices are not closely related. While pre-Thanksgiving wholesale prices are usually the highest for the year, retail prices are usually the lowest due to retail promotions.

In the fourth quarter, whole-bird prices are expected to rise seasonally. A slightly larger increase in turkey output in the third quarter, and greater supplies of red meats, especially pork, may limit later stages of the seasonal price gain. Low-priced ham is expected to compete very sharply with turkey, particularly after Thanksgiving, for consumer dollars.

Producer returns, although negative early this year, have improved steadily. Relatively strong turkey prices and declining feed costs in the third quarter led to the highest returns since 1988. Returns in the fourth quarter will be boosted by seasonally higher turkey prices and lower feed costs, and will likely be the highest since 1986. For 1994, returns are expected to average slightly lower than last year.

Favorable returns during the second half of 1994, and the anticipation of similar returns next year, are encouraging producers to expand production in early 1995. Poult placements in September were 12 percent above last year, and eggs in incubators on October 1 were up 15 percent.

# Aquaculture Supplies Remain Tight

Market-sized catfish supplies are forecast to remain relatively tight over the next 6 months. This forecast is based on estimated grower inventory and the low finished-product stocks held by catfish processors.

Grower prices are expected to remain well above year-earlier levels in the fourth quarter of 1994 and into the first quarter of next year. The farm price for 1994 is expected to average 78-79 cents a pound, a record. The strong grower prices will likely encourage farmers to increase stocking levels, which may raise production next spring.

Total sales for the U.S. trout industry in 1993/94 were \$64.7 million, down 6 percent from the previous year. Sales of food-size trout totaled 52 million pounds in 1993/94, a 5-percent decline. However, the average price for food-size trout rose 2 percent to \$1.01 a pound. U.S. trout producers have faced strong competition from a growing farm-raised salmon industry and the lack of additional sites for expansion in the major growing areas.

# Holidays' Share of Turkey Consumption Has Decreased

While turkey is the centerpiece of Thanksgiving and other holiday meals, it is also quite popular at other times of the year. The trend to year-round turkey consumption has contributed significantly to growth in the industry. Turkey production has increased more than fivefold since 1960, to 5 billion pounds, and per capita consumption has risen from 6.3 pounds to nearly 18 pounds in 1994.

Per capita consumption has remained nearly 18 pounds per year since 1990. But the share of annual per capita turkey consumption in the fourth quarter (October-December), has declined from 56 percent in 1960 to around 36 percent in recent years. The share of total annual consumption in the first and second quarters increased from around 9 to around 20 percent, while the third-quarter share has remained fairly constant at 22-23 percent.

Recently, growth in the first two quarters has stalled, about the same time gains in annual per capita consumption stabilized. It is unlikely there will be large gains in turkey consumption without more growth in the January-September period.

As personal incomes rebound, turkey consumption may receive a lift, particularly from increased lunch trade. Educational and promotional activities, coupled with the development of new deli, luncheon, and evening meal entrees may contribute to consumption growth. Development of a product popular in the fast-food market could provide a real boost, as it has for the broiler industry.

The lower fat, healthful aspects of turkey have been a successful part of turkey meat marketing efforts for many years and should serve the industry well over the long run. Many processed turkey products, such as sausages, taste similar to pork products but contain less fat. However, this advantage could be reduced by the development of lower fat pork products.

[Lee Christensen (202) 219-0771 and Larry Witucki (202) 219-0766]

### Turkey Consumption is Spread More Evenly Throughout the Year

		Q	uarter		
	I	Ш	101	IV	Annual
		% of co	nsumption		Lbs. / person
1960	9	13	22	56	6.3
1970	11	12	26	51	8.1
1980	17	19	25	38	10.3
1985	17	19	24	41	116
1990	19	21	24	36	17.6
1994	20	20	23	36	17.9

Totals may not add due to rounding.

Over the first 6 months of 1994, the U.S. imported 16.5 million pounds of tilapia, up 54 percent from the same period in 1993. Tilapia imports for 1994 are expected to be the equivalent of 45 to 50 million pounds of live fish.

Over the first half of 1994, the U.S. imported roughly 370,000 pounds of crawfish meat valued at \$750,000, both over 490 percent higher than in the first half of 1993. The Louisiana crawfish industry is concerned that low-priced imports may force them out of the processed market.

Domestic seafood consumption includes over \$1 billion in imported aquaculture products, mostly shrimp and salmon. The failure of the farm-raised shrimp crop in China last year and a 13-percent decline in the 1993 U.S. wild harvest is still impacting shrimp prices. Over the first half of 1994, U.S. shrimp imports totaled 269 million pounds and \$1.7 billion, a 2-percent decline in quantity and a 12-percent increase in value.

# Greater Exports Buttress Milk Prices

Recent large sales under the Dairy Export Incentive Program (DEIP) will absorb most of the surplus skim solids for the rest of 1994. However, these export sales provided little boost to prices. Expansion in milk production has accelerated, and growth in commercial use of skim solids remains sluggish. The DEIP sales served primarily to remove a potential source of price weakness.

Milk production in the 21 monthly reporting states during September posted the largest increase yearly since the summer of 1992. This year's fairly strong milk prices, the production-enhancing effects of bST, and favorable late-summer weather accounted for the rise in production. The large gain in milk output per cow easily outweighed the small decline in cow numbers.

Growth in commercial use of skim solids remains slow, less than I percent in April-July. However, with high prices, even slow growth indicates fairly strong demand. Cheese sales are growing moderately, fluid milk sales are up fractionally, and use of nonfat dry milk (other than to produce dairy products) has likely recovered. Commercial use of skim solids is expected to post small monthly increases during the rest of the year.

Milkfat markets are likely to be tight until after the holidays. The industry continued to buy government stocks through September, normally a slack month. Butter sales have grown fairly consistently more than 10 percent from a year earlier, and use of cream has been strong. Commercial use of milkfat is projected to rise 3-4 percent in 1994.

Market conditions are expected to support current cheese prices, but any additional rises probably will be small. Farm milk prices will average near a year earlier during September-December, resulting in a 2-percent increase in the annual average. Seasonal price declines in early winter may be sharp if production is as strong as anticipated.

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### November Releases—USDA's Agricultural Statistics Board

The following reports are issued 3 p.m. ET on the dates shown.

### November

- 2 Broiler Hatchery
- 3 Poultry Slaughter
- 4 Dairy Products Egg Products
- 7 Crop Progress\*
- 9 Broiler Hatchery Cotton Ginnings Crop Production
- 14 Crop Progress\*
- 15 Farm Labor Turkey Hatchery
- 16 Broiler Hatchery Milk Production
- 18 Cattle on Feed Sheep and Lambs on Feed
- 21 Catfish Processing Crop Progress\*
- 22 Chickens ond Eggs Cold Storage
- 23 Broiler Hatchery Cotton Ginnings Livestock Slaughter
- 28 Crop Progress\*
- 29 Peanut Stocks and Processina
- 30 Agricultural Prices Broiler Hatchery

\*After 4 p.m.

# News Watch . . .

### Update on Delaney Clause Chemicals

The Environmental Protection Agency has agreed to review and phase out the use of cancer-causing pesticides on food as part of an out-of-court settlement reached last month with several consumer rights organizations. The agency will review a total of 85 pesticides used on foods, to determine if they violate the Delaney Clause, a Federal statute which prohibits the use of a certain group of carcinogenic pesticides—those that concentrate during food processing.

The settlement calls for EPA to complete the process of review and cancellation over a 5-year period. However, the settlement is subject to approval by a Federal court, and could be appealed.

Delaney Clause chemicals are registered for use on a wide variety of fruit, vegetable, and field crops. Many of these crops either do not rely heavily on Delaney chemicals for production, or have effective pest control substitutes available. But some U.S. crop production will be seriously affected by this declsion (AO May 1993). Moreover, regional differences in pest problems mean that benefits and costs will be spread unequally across the agricultural sector. For example, a 1991 USDA study of fungicide benefits concluded that apple production in eastern states (40 percent of the U.S. total) would not be commercially viable without fungicides, and captan and other commonly used fungicides in these states are Delaney chemicals.

### "Super Rice" in 2000

Plant scientists from the International Rice Research Institute in the Philippines report that initial tests of their new "super rice"—which could increase harvests as much as 20 to 25 percent—were successful. The new variety produces fewer stems, filled with more grains of rice, than other modern varieties, and the institute indicates that it will likely be commercially available by the turn of the century—after insect resistance and other traits are added. The new variety could help meet the needs of the world's growing population, especially in Asia, where rice is the major food crop. According to USDA's Economic Research Service, of the 2-percent annual growth in productivity in developed countries over the past 20 years, almost all derived from technological change such as genetic improvement in seed varieties (AO June 1994).

### EU Adds to Its Roster

Voters in Finland opted for membership in the European Union in a referendum held on October 16. Austrian voters endorsed membership in June, and citizens in Sweden and Norway will vote on membership in November. Polls in late October indi-

cated that support of membership in the EU was on the increase In Sweden, but that many voters in Norway are undecided.

The addition of Finland and Austria brings the EU total to 14 members, and represents the first expansion of the EU since 1986. While Austria, Finland, Norway, and Sweden are not a large U.S. market, the U.S. could lose part of its \$300-million trade in agriculture and food exports to the region as these countries integrate into the EU (AO March 1994). Several small niche markets for U.S. specialty products may shrink, and depending on the outcome of U.S.-EU negotiations, market access for U.S. meat may be limited in these countries.

### Recycled Paper Prices Are Soaring

Prices for used paper, cardboard, and newspaper have risen dramatically from a year ago in response to industry announcements to expand mill capacity for recycled paper products, and to an economic recovery which has increased demand. Prices paid by mills for old newsprint, for example, have risen from \$10.\$35 per ton in September 1993 to \$55.70 per ton in September 1994, and prices for recycled office paper went from \$5.15 per ton to \$85.\$105.

Most mills built before 1992 were equipped to make products using only virgin fiber from trees and could not accommodate the paper products yielded by recycling. But most mills added since 1992 use recycled fibers as a major input for the manufacture of paper, and a large jump in wastepaper recycling capacity is expected in the next 2 years. Rules set by local governments on mandatory recycled paper content, and the development of improved recycling technology, have been fostering markets for recycled materials (AO September 1993).

### **USDA-Disney Nutrition Partnership**

The Walt Disney Company has joined forces with USDA in a nationwide media campaign to teach children the importance of good nutrition. USDA's Childrens' Nutrition Campaign will also work with other entertainment media to promote an "eating for health" message to children.

USDA is also bringing producers into schools and working with professional chefs, employees in the school lunchroom, and students in the classroom to convey the message that nutritious food can look and taste good (AO January-February 1994). And in June, USDA introduced a major regulatory proposal—the School Meals Initiative for Healthy Children—to improve the nutrition standards of the nation's school lunch and breakfast programs.



# Shifts in The U.S. Corn Market

orn use in the U.S. has changed significantly over the last decade and a half. Among the most important changes are the emergence of several new industrial uses of cornstarch, expanded use of corn for fuel alcohol, greater use of corn sweetener in soft drinks, and a decline in exports.

Domestic use of corn in 1994/95 is expected to exceed 7 billion bushels, up from 4.9 billion 14 years earlier. The composition of domestic use has changed during that time, particularly for food and industrial uses.

Corn used for fuel alcohol has increased from just 35 million bushels, or less than one-tenth of a percent of total use 14 years ago, to an expected 6 percent, or 510 million bushels, in 1994/95. Much of the recent increase in fuel use of corn has been due to Environmental Protection Agency (EPA) rulings requiring both greater use of oxygenated fuels and mandating a fixed percentage of oxygenated fuels originating from renewable sources.

In 1840, corn wet millers developed a process that separates the starch from the gluten (protein), germ, and the corn hull. The manufacture of this starch has become an important market for corn today. Cornstarch accounts for 3 percent, or 250 million bushels, of forecast total corn use in 1994/95, up from 151 million, or 2 percent in 1980/81. The starch is used to make such diverse products as sweeteners, disposable forks and spoons, and many other items. Cornstarch is similar to the carbon molecule in petroleum which is used to make a variety of industrial and consumer products.

At first, cornstarch producers extracted starch for use in foods and as a laundry stiffening agent applied before ironing shirts and uniforms. Cornstarch is still used as a thickening agent in gravies, sauces, and other prepared foods to improve the texture. Currently, food use of starch is estimated to account for 15 percent of total use of cornstarch. Today the majority of starch is for industrial usesas a coating for paper and paper products and making wall boards for buildings. In addition, the pharmaceutical industry uses starch to make pills and other products. Industrial use of cornstarch account for over 2 percent of total domestic and export use of com.

Feed use of corn continues to expand. Corn's importance as feed stands in stark contrast to its use in frontier times. Although the early farmers fattened some hogs with corn, their farm animals' primary food supply consisted of acorns and other noncultivated foods. Today, corn is the major source of animal feed in the U.S. In 1994/95, feed and residual use is forecast to reach a record 5.4 billion bushels, and account for 62 percent of total domestic and export uses of corn. In 1980/81, feed and residual use was 4.2 billion bushels, or 57 percent of total use.

Corn is expected to account for 85 percent of all feed grain and wheat feed and residual use in 1994/95. If grains, protein supplements, and feeds from byproduct are converted to equivalent units, corn would account for 59 percent of all concentrate feeds.

In 1994/95, beer and distilled spirits are expected to account for 1 percent of total corn use, nearly the same as 1980/81. Corn is also milled to make food products such as corn bread, corn chips, and cereal—these milled uses are expected to account for over 1 percent of total use, up from 0.7 percent in 1980/81.

### Feed and Fuel Expand Shares of U.S. Corn Market

		Market	ing year	
	1980/81	1985/86	1990/91	1994/95
		% of k	otal use	
Feed and residual	58	63	60	62
Food, seed, and Industrial				
HFCS <sup>2</sup>	2	5	5	5
Glucose and dextrose	2	3	3	3
Starch	2	3	3	3
Alcohol:				
Fuet	_	4	5	6
Beverages	1	1	1	1
Cereal and other food products	1	1	1	1
Seed	_	_		
Total food, seed, and industrial	9	18	16	20
Exports	33	19	22	17
		Mil	.bu.	
Total use	7 28	6.49	7.76	864

Totals may not add due to rounding.

Does not include sweet com, which is categorized by USDA as a vegetable. <sup>2</sup> High-fructose com syrup.

# Corn Sweeteners Important in Soft Drinks

In the mid-19th century, wet corn millers developed a process to convert starch into corn syrup, the first sweetener made from corn. Corn syrup has many useful properties for baked goods and is widely used in the home around Thanksgiving and Christmas. In recent years, commercial bakers have been using more corn syrups in their products, primarily because it isn't as "sweet" tasting as sugar, yet has the same desirable properties.

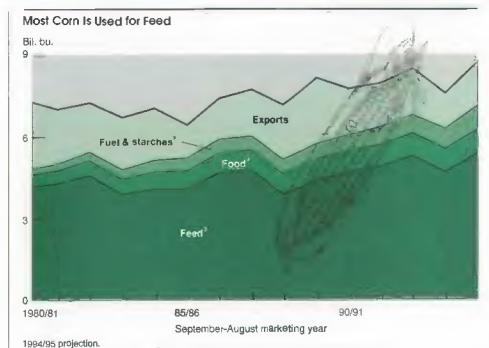
Corn syrup is included with glucose and dextrose in the corn products use category. In 1994/95, 225 million bushels, or 3 percent of total corn use, is expected to be used in producing glucose and dextrose, up from 2 percent 14 years ago. Growth in this category appears to be slowing.

A recent development has been the ability to make high fructose corn syrup (HFCS) from starch. While wet corn millers have been able to make HFCS for several years, use did not really take off until sugar prices jumped in 1974 and soft drink manufactures began reformulating their products to use HFCS in their products.

Today, about 70 percent of HFCS use is in the manufacture of colas and other drinks. In fact, most nondiet drinks contain HFCS. Corn used to make HFCS in 1994/95 is expected to account for 455 million bushels, or 5 percent of total corn use, up from 2 percent 14 years ago.

# Clean Air Act Mandates Reformulated Fuels

A more recent use of corn has been to make alcohol to blend in fuel for gasoline-powered vehicles. Engines have been run on alcohol for a long time, but the cost of alcohol relative to gasoline made this more a curiosity than a viable market option. However, the energy crisis of 1973 and the resulting sharp increase in gasoline prices encouraged the use of alcohol in gasoline. Federal and state tax incentives also helped encourage the use of alcohol.



Hocludes stanches used for food. Includes various sweeteners, and alcohol for beverages. Includes uses unaccounted for.

The energy available in alcohol is less than from gasoline, so per-gallon mileage slips when alcohol is added to traditional fuels. However, the addition of alcohol helps gas burn more completely and produces less carbon monoxide. In addition, the oxygen content of alcohol helps cities meet clean air requirements, especially in the winter.

Besides grain-based ethyl alcohol.

MTBE—a petroleum-based product—
can be used in fuels to reduce carbon
monoxide. Both ethyl alcohol and

MTBE are use to increase the octane rating of gasoline.

The Clean Air Act Amendments of 1990, requiring cities that fail to meet certain air quality standards to sell only reformulated gasolines, have raised expectations of greater use of corn in the production of alcohol. Corn used for fuel alcohol is expected to reach 510 million bushels in 1994/95, 6 percent of total corn use, up from less than 1 percent 14 years ago.

In addition to the nine cities cited for carbon monoxide violation, other cities are expected to adopt the reformulated fuels mandate. Moreover, ethyl alcohol was expected to be used in production of much of the reformulated gasoline. Last

June, the EPA announced rules that oxygenates made from renewable resources must account for 15 percent of reformulated fuels by 1995 and 30 percent thereafter.

The renewable fuels content requirement is currently on hold while the courts decide if the mandated use is legal. Also, because evaporation of ethyl alcohol is more rapid in warmer seasons, the alcohol can be used only in the colder months, or converted to ETBE, an ether, for use in the summer. Methyl alcohol prices have shot up as the demand for MTBE has increased to meet the first deadlines for reformulated gasoline.

Ethyl alcohol is produced by both dry and wet milling. Approximately 60 percent of fuel alcohol is produced from the starch generated in the wet milling process. Dry mill alcohol plants buy whole corn, then grind the kernels to make the mash for fermenting in much the same manner as colonial farmers did, only on a much larger scale. Dry mill plants then sell the spent mash for livestock feed. This feed contains proteins, yeast, corn hulls, and corn oil. Wet milling yields corn gluten feed and meal, corn oil, and corn germ meal.

### Corn & Demand-Side Policies

Beginning in the late 18th century, government policies have helped to shape the U.S. com market. But as with most other field crops, it was during the Depression of the 1930's that government involvement increased most significantly. Reacting to extremely low prices and surplus supplies, the Federal government began acreage reduction programs in 1933 that have continued in some form until the present.

While most policies have focused on the supply side, government policies to increase demand were also started as far back as the 1930's. For example, government research aimed at increasing industrial use of corn was underway at that time. During and immediately after World War II, corn demand and prices increased, reducing interest in expanding alternative uses for corn.

In the last two decades, demand-side policies have again increased in importance. The recent development of corn used for ethanol was spurred by government incentives initiated during the energy crisis of the early 1970's. The current effort to use corn as a raw material for fuel oxygenates reflects an EPA mandate, although the final outcome of this effort is still being determined by the courts.

The corn market has also been shaped indirectly by other policies. Some of the impetus for the widespread adoption of corn sweeteners in soft drinks during the 1980's stemmed from limits on sugar imports, which raised domestic sugar prices, making alternatives more altractive to users.

The two biggest components of corn demand, feed use and exports, are less directly shaped by policies. The government has little impact on the demand for animal feed, and the free market is the norm in livestock sectors. Exports of corn have not received export subsidies during the last few years, in contrast to wheat exports, and food aid plays a very minor role in U.S. corn trade. Government efforts to enhance corn exports have focused largely on credit guarantees.

# Exports Decline As Share of Total Use

The remaining use of corn is for export, which has been the second-largest component of total use over the last three decades. U.S. corn exports were relatively minor until after World War II. Prior to this, with a few exceptions, U.S. exports were typically small—well under 100,000 bushels a year—and generally accounted for less than 2 percent of use. This reflected both low global trade and a very low U.S. market share, often as low as 2 percent. Argentina dominated world corn exports up to the mid-1940's.

Exports began to assume more importance after World War II, and saw fairly rapid growth in the 1960's, due largely to big gains in European demand. During

the 1970's, corn exports rose significantly, with major new markets emerging in Japan and the Soviet Union. Import demand for corn by developing countries and Eastern Europe also soared in the 1970's, and world trade boomed. U.S. exports increased fourfold during the decade, peaking at more than 2.4 billion bushels in 1979. Export share of use peaked at 33 percent in 1980.

For the next few years U.S. com exports declined, although a brief rebound occurred in the late 1980's. U.S. corn exports again slumped in the early 1990's, and in 1993/94 accounted for just 17 percent of use, the lowest since 1971. A strong rebound is forecast in 1994/95, up 23 percent, but export share of use is expected to rise to only 19 percent.

Total food, seed, and industrial use of com exceeded exports for the first time in 1993/94. This reflects both the steady growth in food, seed, and industrial use and the reduced level of U.S. corn exports. Looking at the export downturn by itself is somewhat misleading. In recent years, rising U.S. exports of meat and poultry have helped pick up feed use of corn, and the meat exports capture more value-added gains.

All categories of corn use are forecast to expand, and a variety of factors will shape the U.S. corn market in the future. Growth for some uses, such as starch, will largely be tied to the pace of economic growth. Ethanol use will continue to be determined largely by clean air legislation, assuming no dramatic rise in petroleum prices.

For any of the industrial applications of corn, technological developments could accelerate use, such as gains in the use of corn to make biodegradable plastics. Conversely, corn will also face threats from other raw materials that can compete to make starch, ethanol, or other products more cheaply.

Feed use is expected to continue rising, although the pattern of growth will continue to be marked by considerable fluctuation. The unevenness is closely linked to fluctuations in corn production, mainly the result of weather.

Exports are traditionally the most volatile component of corn use, and the most difficult to forecast. Assuming historical production growth, a wide range of external factors will determine export levels, such as population growth, economic expansion, changes in diets, and the ability of competitors to increase exportable supplies.

For the immediate future, exports will probably remain below food, seed, and industrial use. However, exports are expected to continue increasing in the 1990's, and in any given year—with a large weather-induced shortfall in foreign production, for example—exports could jump dramatically. [Allen Baker (202) 219-0839 and Pete

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# The New Cornucopia Of Produce

s U.S. consumers increasingly embrace the well-known adage on the virtues of fruits and vegetables, their array of choices continues to widen. Fresh-cut fruits and vegetables, prepackaged salads, local brands, exotic produce, as well as hundreds of new varieties and processed products have been introduced or expanded in the last decade.

Per capita use of fruits, vegetables, and melons began an upward growth path in the early 1980's in response to higher consumer incomes, increased ethnic diversity in the population, and burgeoning interest in healthful diets. Today, per capita use is a fifth higher than in 1980, and is likely to continue expanding into the next decade as consumers heed nutritionists' message on healthful eating.

Supermarket produce departments carry over 400 produce items today, up from 250 in the late 1980's and 150 in the mid-1970's. Also, the number of ethnic, gourmet, and natural food stores—which highlight fresh produce—continues to rise.

Consumers increasingly have more access to fresh, local produce as well. The number of farmers' markets has grown substantially throughout the U.S. over the last several decades and was 1,755 by the end of 1993, according to a recent survey by USDA's Agricultural Marketing Service. A 1990's twist on direct marketing has been the development of Community Supported Agriculture by a few growers and consumers—where consumers contract with farmers before the growing season starts, to buy produce grown that year.

# New Mix Highlights Fresh Fruit & Salads

While the overall market for fruits and vegetables has expanded in the last 15 years, the mix has changed. Shifts have taken place among traditional produce items and between fresh and processed forms, traditional varieties have lost market share to specialty varieties, and consumption has risen for exotic items.

Americans are eating more apples, grapes, bananas, and other noncitrus fruits, and fewer grapefruits and oranges. Americans consumed nearly 100 pounds of fresh fruit per person in 1993, up more than 14 percent from 1980. Consumption of apples, grapes, bananas, and other noncitrus fruits has climbed almost steadily in the last 15 years, from about 60 to 74 pounds, due to increased availability and lower prices. However, annual orange and grapefruit consumption has declined 6 and 22 percent during this period, due to periods of freeze-induced tight supplies and competition from other fresh fruits.

Freeze-reduced supplies of grapefruit in 1990 and oranges in 1991 raised prices so much that, even after adjusting for inflation, consumer prices were higher than in the early 1980's. Retail grapefruit prices averaged 9 percent higher in 1989-93 than in 1980-84, and navel orange prices were up 4 percent. On the other hand, improved technology and more storage facilities make high-quality U.S.-produced fresh apples and pears available year round. Imports popularized new varieties-such as Granny Smith apples-and augmented winter fruit supplies, which had been dominated by citrus fruit.

While prices of citrus fruits climbed during the 1980's, prices of many noncitrus fruits dropped. Inflation-adjusted retail prices of Red Delicious apples were 10 percent lower in 1989-93 than in 1980-84, banana prices dropped 12 percent, d'Anjou pears were down 7 percent, and Thompson seedless grape prices fell 15 percent.

Gains in U.S. production were largely responsible for lower apple and pear prices, while increased production in other countries encouraged U.S. imports and lowered banana and grape prices. Bananas—at nearly 26 pounds per person annually—continue to be the most popular fresh fruit, and nearly all of the U.S. banana supply is imported.

Consumption of salad vegetables is up, and specialty lettuce varieties-red and green leaf, romaine, and others-are eroding the market share of iceberg lettuce. While increases have occurred across many fresh vegetable eategories over the past 10 to 15 years, many of the gains have been for items traditionally found in salads. Components of the increase of nearly 27 pounds per person in fresh vegetable consumption since 1980 include tomatoes (up 3.1 pounds), all lettuce varieties (up 1.5 pounds), cucumbers (up 1.6 pounds), green peppers (up 3 pounds), onions (up 4.3 pounds), and spinach (up over half a pound).

Specialty varieties of lettuce account for almost all of the increase in lettuce consumption since 1980. Use of head (iceberg) lettuce peaked in 1989 at 28.8 pounds per person, and has declined 15 percent since then. However, per capita use of leaf and romaine lettuces increased 48 percent since the mid-1980's to nearly 5 pounds in 1993. At the same time, consumers have rediscovered fresh spinach, and use has more than doubled since 1980 to 1 pound per person.

Increasing use in salads is behind much of the increase in fresh tomato use, up 24 percent to 16 pounds per person last year. The increasing popularity of pizza, pasta dishes, salsa, and catsup is behind the increase in processed tomato use, which was 76 pounds per person in 1993, up 20 percent from 1980. The introduction of various sweet onion varieties has been pivotal in boosting onlon demand—which has risen 40 percent to 16 pounds per person since the early 1980's.

Fresh broccolf and cauliflower, which are also frequently used in salads, were viewed as the vegetable market stars during the 1980's. Per capita use more than doubled for fresh-market broccolf to about 3 pounds, and was up 109 percent

# What Is Per Capita Use?

Per capita use of food commodities represents the apparent net utilization of the commodities marketed by growers. Total use is derived from adjusting total utilization such categories as trade (imports less exports), stocks (inventories), and storage losses. When total use is divided by the U.S. population figure (including military), an estimate of commodity use per person is established.

So per capita fruit and vegetable use is not actual fruit or vegetable consumption. The per capita use series is not based on consumption surveys but is an estimate of the amount of raw product supplied per person, based on the best available data. USDA's Economic Research Service does not track the actual amount of fruit or vegetables used by consumers. What is termed "per capita use" or "consumption" is actually the per capita supply of fruits and vegetables in domestic markets. In the farmweight (fresh-equivalent) series. ERS does not make adjustments for loss during transportation from the shipping point, shrinkage from spoilage and trimming during retailing, or product discarded by consumers.

Despite the wide range of the items now included in the per capita fruit and vegetable estimates, coverage is not complete. Many commodities are omitted because of inadequate data. These include squash, pumpkins, okra, greens, and a wide variety of specialty and dehydrated fruits and vegetables.

for fresh cauliflower, to 2 pounds.
Widely claimed health and nutritional
benefits, verified by the scientific community, likely played a significant role in

spurring demand. Frozen broccoli and cauliflower have also registered impressive gains, with broccoli use up 64 percent since 1980.

Consumption of frozen french fries and other processed potatoes has soared, and now surpasses fresh use. A staple commodity in the U.S., potatoes account for almost one-third of total per capita vegetable use. Perhaps the most significant change in the vegetable market over the past 15 years has been the rise of frozen potato use and the decline in fresh use. Surpassing fresh use in the mid-1980's, frozen potato consumption now exceeds 52 pounds per person annually (on a fresh-weight basis) and continues to move higher.

The popularity of fast-food restaurants lies behind most of the shift toward frozen potato use. In 1993, about 89 percent of frozen french fries (5.5 billion pounds) was sold by food-service outlets. With the success of frozen french fries and potato chips, and a small turnaround for fresh potato use in the early 1990's, total U.S. per capita potato use (farmweight equivalent) increased 17 percent between 1980-82 and 1992-94.

Exotic or specialty produce—mangoes, kiwis, carambola, jicama, broccoflower, and other new or unusual items—mostly remain in a small but rapidly expanding niche market. Some minor fruits that jumped to record-high consumption in 1993 were kiwifruit, up 60 percent since 1980 to more than a half pound, and mangoes, up 68 percent to almost 1 pound. A record California kiwi crop was marketed in 1993, while a 40-percent jump in imports from Mexico boosted mango consumption.

# Future Gains Likely

Although fruit consumption continues to rise, per capita vegetable use stagnated in the early 1990's. Some of this can be explained by the sluggish economy through 1991, which limited away-from-home food purchases, as well as weather anomalies which impacted seasonal supplies of some vegetables and kept demand for fresh produce in check during

the severe winter of 1993. Despite the poor beginning in the 1990's, further gains in fruit and vegetable use into the next decade are likely, due to:

- demographics—growth in the population (domestic market size continuing to increase), and the aging of a significant portion of the population (as people mature they tend to increase consumption of fruits and vegetables);
- the introduction and expansion of new products such as baby carrots, prepackaged salads, and other freshcut fruit and vegetable products;
- improvements in vegetable varieties such as tastier tomatoes and seedless watermelon;
- the mainstreaming of some nontraditional specialty fruits, vegetables, and melons as they gain favor with consumers; and
- continued promotion of fruits and vegetables by various groups including the Produce for Better Health Foundation (5-a-Day program) and individual commodity boards and associations.

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### Farm-Finance



# States Pursue New Ag Credit Programs

any states have begun accelerating the use of small, innovative farm credit programs in order to assist beginning farmers, encourage environmental improvements, promote alternative crops, and meet other state goals. During 1993/94, 32 states had 81 of these programs, assisting more than 31,000 farmer-borrowers, according to USDA's Economic Research Service.

These state programs are funded and/or operated by state agencies, and largely complement the larger federally sponsored agricultural credit system. The programs help farmers gain access to credit by providing direct loans, loan guarantees, and grants, which reduce the cost of capital and increase its availability.

Although the pace has quickened in recent years, states have been involved in designing credit programs for several decades and have used that experience to make several innovations in funding methods and program purposes. Although most remain small in size in com-

parison with Federal programs, statelevel programs are highly responsive to the credit needs of farmers in their geographical areas. And for some specific purposes—such as promoting new crops and environmental improvements—state funding may exceed Federal.

Surveys of state programs conducted by the Economic Research Service have identified six major reasons why states choose to operate farm credit programs:

- assisting farmers through a period of extreme financial hardship;
- enabling more farmers to qualify for additional assistance, possibly a bank loan or participation in a Federal program;
- fostering successful entry into farming by beginning farmers;
- promoting innovation or diversity through new and nontraditional crops;
- encouraging implementation of environmentally sound practices; and
- strengthening the agricultural sector with incentives to modernize.

# Building on Federal Programs

Federally funded farm credit programs have been a familiar feature of rural credit markets since the establishment of Federal Land Banks in 1916. These programs have employed various methods to promote income redistribution, economic growth, price stability, and capital availability. Examples include low-interest loan programs of USDA's Farmers Home Administration (FmHA), the government's implicit guarantee of Farm Credit System securities, and the regulatory allowance for seasonality in the lending patterns of agricultural commercial banks.

State involvement in agricultural credit programs has been limited until recent years. Beginning in the 1970's, interest grew in designing programs that aug-

mented FmHA programs—with the earliest of these state programs helping beginning farmers to become landowners. In the early 1980's, the agricultural credit crisis spurred numerous new state programs, although many of these programs never received funding or lasted only a short time. The state programs that are developing today serve numerous purposes, and reflect several innovations in credit delivery, funding, and program viability.

What factors persuade state legislatures to start an agricultural credit program? First, the increased costs of adopting environmentally sound practices are considered worthwhile investments for public financing much like other infrastructure investments. Second, many states have recognized a need to provide financial assistance to farmers who have had to respond to dramatic changes in weather, national and global economic conditions. financial markets, technology, and even shifts in food consumption preferences. Third, changing political realities induce states to supplement Federal programs in order to preserve small farms, respond to conditions that threaten an economically prominent agricultural sector, or meet other specific state goals.

The total amount spent on all known state credit programs, some of which have been active for more than 50 years, is smaller than the outstanding loan balances of the FmHA direct loan program. For example, in 1993, FmHA made \$612 million in direct farm ownership and farm operating loans (representing approximately 140,091 borrowers) and another \$1.5 billion in loan guarantees. For this same period, the outstanding loan balance on FmHA's direct loan programs stood at \$14.0 billion.

This compares to a total outstanding loan balance for 1993/94 of just over \$1.8 billion for all known active state-sponsored agricultural credit programs, representing some 31,400 loans. Although FmHA's loan balance figures and those of all state-sponsored agricultural credit programs are not directly comparable, their comparison does provide a general sense of the size and scope of the state-level programs.

# Farm Finance

Despite their small size relative to Federal credit programs, state credit program balances are significant considering that most state programs began after 1978 and have been operating during a period of very tight financial pressures. Although their total loan balance may be smaller, state credit programs have, in general, been better able to target aid to specific needs and therefore make more efficient use of each dollar invested, according to a 1987 Florida State University study.

State programs often target borrower groups that are not specifically addressed by Federal programs, or groups that wield more political power on the state than on the Federal level. Funding methods selected by states attempt to balance broader public concerns with available revenues of the state and yet ensure adequate capital for program operations. Two funding methods—linked deposits and revolving loan funds—illustrate the adaptive nature of state program funding methods for addressing specific borrowers' needs.

Unlike Federal loan programs—which rely primarily on Congressional appropriations-linked deposit program parameters can be tailored to target capital for a wide range of farm loans. States accept lower interest earnings on state investment funds in exchange for a corresponding reduction in the interest rates paid by farmer-borrowers on commercially provided loans to fund operating expenses, alternative crops, land purchases, beginning farmer loans, and waste management improvements. To make such a "deposit," a state might purchase a low-yield certificate of deposit from a commercial bank or a savings and loan association, or a bond from a Farm Credit System lender. Proceeds from the certificate of deposit or bond purchase fund the farm loan. Thus, the loan is "linked" to the deposit.

Revolving loan funds are another funding method used by states to tailor loans to meet farmers' borrowing needs. Some programs offer financing for one loan purpose, while others cater to several types of borrowers under one loan program. Revolving loan funds address diverse borrowing needs including support for distressed farmers, crop diversification, soil conservation, operating expenses, assistance to beginning farmers, and energy efficiency.

Revolving loan funds typically use legislated appropriations for initial capital. Loan repayments, proceeds from loan sales, and other income are used to recapitalize the funds. Additional capital may be added to the funds, providing either fund expansion or the replenishment of fund losses due to loan defaults or slow repayment.

# New Goals Are Targeted

While the state programs are providing credit assistance to meet widely different purposes, several types of programs—those which assist beginning farmers, promote the cultivation of new crops, and facilitate environmental improvements—are much more evident now than half a decade ago.

Beginning farmer programs are now active in 17 states, and will likely increase in number. Assisting successful entry into farming has a long history as a major goal of farm credit assistance. However, the rising average age of farmers and the growing cost of acquiring a farm of economical size are issues giving heightened priority to beginning farmer programs at both state and Federal levels.

State-sponsored programs are concentrated in the middle U.S., and nearly all the midwestern states provide beginning

For more on state ag credit programs . . .

The study results on state agricultural credit programs discussed in this article are described in detail in a staff report by USDA's Economic Research Service—Itandbook of State-Sponsored Agricultural Credit Programs. ERS Report No. AGES 9426. November 1994. (Call 202-501-6751 for a free copy).

farmer assistance. Beginning farmer programs concentrate on farm real estate loans, but assistance for production credit is often also available.

Some of the state beginning farmer programs operate under cooperative funding efforts with FmHA. In these cooperative efforts, FmHA agrees to provide either direct financing for a downpayment, or a 90-percent loan guarantee for farmers participating in the state's beginning farmer loan programs. FmHA was working with 12 states—Arkansas, Missouri, Colorado, Illinois, Nebraska, Iowa, North Dakota, Minnesota, Wisconsin, Oklahoma, Pennsylvania, and North Carolina—as of September 1994.

The downpayment loan option is meant to ease the transfer of farm ownership from retiring to beginning farmers. FmHA has targeted 55 percent of all direct farm ownership loans to be allocated to this program in FY 1994, with an increase to 65 percent by FY 1996.

Private-use tax-exempt bonds is another program for financing beginning farmers. This program can be used to make the returns on qualified loans to beginning farmers exempt from Federal income taxes. Loan funds are converted from small-issue, private-activity bonds. This funding method is used primarily for beginning farmer and rancher programs, although some states make broader use of the bond financing by using it to make vertical integration or environmental improvement loans. In exchange for Federal income tax benefits, program guidelines are determined in large part by Federal requirements.

Eight states are currently operating credit programs for promoting alternative crop production. These programs narrowly target assistance to promote innovation and diversity in the state's agricultural sector on a small scale. Most programs encourage "nontraditional" crops, including those which may be "traditional" in other areas of the country but are new to most farmers in the state. Iowa's credit assistance program for alternative crops, for example, includes horticultural crops, since most are not among the state's traditional major crops.

### Farm Finance

New crops can also be products that are either seldom grown commercially, or are produced in a significantly different manner. Direct loan programs are the most commonly used funding method for programs of this nature.

Eleven states are now operating agricultural credit programs designed to facilitate environmental improvements. These credit programs promote soil and water conservation measures, water quality improvements, equipment to control pollutants and contaminants, energy conservation methods, protective measures to preserve wildlife habitat, and methods to mitigate damage from natural disasters. These programs utilize direct and insured loans, as well as linked deposit and grant programs, to encourage adoption of environmentally sound improvements.

Overall, states are well positioned to respond to the specialized borrowing needs of farmers and ranchers in their geographical areas. In 1994, 32 states actively sponsored 81 agricultural credit programs. These state programs are increasingly addressing issues involving environmental concerns and cultivation of new crops, which help state agriculture sectors adapt to the changing dimensions of today's economy.

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# A review of ag credit providers:

- Commercial banks
- Farmers Home Administration
- Farm Credit System

In the December issue of

Agricultural Outlook

### **Environment & Resources**



# Salmon Recovery: Impacts on Agriculture

almon populations in the Columbia and Snake Rivers of the Pacific Northwest have declined precipitously over several decades. Since 1991, the Federal government has listed the Snake River sockeye, spring chinook, and fall chinook salmon runs as "endangered" under the Endangered Species Act. This action set the Federal regulatory machinery in motion to develop and implement a recovery plan for the listed salmon runs.

Because the salmon habitat encompasses much of the Columbia and Snake Rivers and their tributaries, a recovery plan may affect water use throughout the Pacific Northwest regional economy. Agriculture is among the sectors potentially affected by changes in river system management, along with electric power utilities, municipal and industrial consumers of electricity, river transportation, fishing, and forestry. According to a re-

cent report by USDA's Economic Research Service (ERS), several potential salmon recovery measures could affect crop production and agriculture-related employment and income in the region.

Agriculture accounted for almost \$5 billion (about 3 percent) of total output in the Pacific Northwest region—Idaho, Oregon, and Washington—and 166,000 (nearly 3 percent) of the workers in 1990. Food processing was valued at \$9 billion and employed 158,000 workers. Major crops in the region include wheat, barley, hay, Irish potatoes, and sugarbeets. Wheat and barley production represented 13 and 23 percent of the national total, while sugarbeets and potatoes accounted for 16 and 49 percent.

The major source of the declining salmon runs is the regional system of 150 dams used for hydroelectric power generation and other purposes. This system reduced salmon populations by impeding access to spawning grounds, impairing downstream migration of juveniles, and outright blocking of runs in some areas. Irrigation diversions, grazing, mining, and logging further contributed to habitat degradation. And commercial, sport, and subsistence fishing directly reduced salmon stocks.

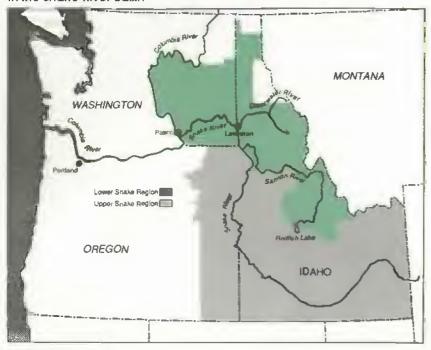
In an increasingly contentious policy environment, interest groups are gearing up to compete for future, reduced access to this region's water resources. These groups include farmers, electricity consumers, barge companies, Native American communities, commercial fishing operations, and environmental and wild-life organizations.

# Two Measures Would Affect Crop Production

A salmon recovery strategy will operate under provisions of the Endangered Species Act (1973) and the Northwest Electric Power Planning and Conservation Act (1980). As the lead agency for recovering the three salmon runs listed under the Endangered Species Act, the National Marine Fisheries Service has responsibility for developing a recovery plan in cooperation with other Federal agencies. These agencies include the Army Corps

# **Environment & Resources**

### Salmon Recovery Plans Could Affect Agriculture In the Snake River Basin



of Engineers, the Bonneville Power Administration, Bureau of Reclamation, and Fedral Energy Regulatory Commission.

The Northwest Power Act mandates that fish and wildlife be treated equally with other river uses. This act also established the Northwest Power Planning Council to oversee interstate management of fish and wildlife and other water uses in the Columbia River Basin.

While current studies are exploring the economic and biological feasibility of many proposed measures to restore the salmon runs, the recent ERS study focused only on the two measures having the greatest potential impact on crop agriculture—reservoir drawdown and flow augmentation in the Snake River Basin. These measures are designed to increase the velocity of river flow in order to assist downstream migration of juvenile salmon.

Although restoration of riparian habitat affects livestock grazing on public lands—and was examined in a 1992 U.S. Forest Service study—habitat restoration does not significantly affect crop production. Other measures such as barging ju-

venile salmon and improving hatchery practices would not affect agriculture. These last three options were not analyzed in the ERS study.

Reservoir drawdown involves significant lowering of four Lower Snake River reservoirs between Lewiston, Idaho and Pasco, Washington. Because barge traffic would be curtailed during the drawdown period, this measure would induce cost increases in transporting grain for farmers in the Lower Snake region. Moreover, this strategy alters the management of river flow designed to maximize generation of hydroelectric power; hence it would raise power rates for agriculture and other sectors in many areas of the Northwest. In addition, reservoir drawdown may involve modification of irrigation pump stations at one Lower Snake reservoir.

The second measure, flow augmentation, calls for acquiring additional instream flows from the Upper Snake River in order to push more water through the system of Lower Snake reservoirs. This measure will likely reduce irrigation water supplies to southern Idaho and eastern Oregon producers. These water supply reductions could induce several

producer responses, such as switching production from irrigated acreage to dryland acreage, and substituting water-conserving crops for water-intensive crops.

The ERS study examined high and low options of these two recovery measures. These options, individually or combined, represent possible elements of a strategy for managing Snake River flow. For Lower Snake producers, a low option of reservoir drawdown would last 2 months during the spring; the high option would last 4 1/2 months during spring and summer. For Upper Snake producers, a low option of flow augmentation calls for irrigation water-supply reductions to achieve an additional 0.127 million acrefeet of river flow; the high option calls for water-supply reductions to achieve 1.127 million acre-feet of flow augmentation.

# Primary & Secondary Effects Are Small

The primary effects of these salmon recovery options are measured by changes in economic profits from crop production. For the Pacific Northwest, increases in power rates and transportation costs due to reservoir drawdown appear to cause minor reductions in producer profit. For both the low and high

# For more on salmon recovery . . .

The economic effects on agriculture from potential salmon recovery measures in the Pacific Northwest are described in detail in a report by USDA's Economic Research Service—Salmon Recovery in the Pacific Northwest: A Summary of Agricultural and Other Economic Effects. ERS Report No. AIB-699. June 1994. (To order call 1-800-999-6779—the cost is \$7.50 per copy).

# Environment & Resources

options, profits fall by less than 1 percent, or less than \$10 million per year. Producers in the Lower Snake region bear most of these losses.

The large reduction in irrigation water supply to Upper Snake producers induces the greatest effect on economic profits. Producer profits fall almost 3 percent in the Pacific Northwest, or by \$30-\$35 million, including losses of \$27 million concentrated in the Upper Snake region. The large water reduction causes producers to reduce production of alfalfa, sugarbeets, dry beans, and to a smaller extent, potatoes, on irrigated land, and to increase dryland acreage of wheat, barley, and alfalfa.

Some observers suggest that farm profit losses due to reduced irrigation water diversions could be partially or wholly offset by monetary compensation through water markets or other forms of compensated transaction. The Bonneville Power Administration and the Bureau of Reclamation are exploring options for acquiring water in the Upper Snake River Basin through voluntary transactions.

The direct impacts on crop production and agriculture-related industries produce secondary effects in other sectors of the Pacific Northwest economy. Net changes in income (the sum of wages, profits, and rents) and employment provide measures of the regional impact of these recovery options.

Changes in total annual income in the Pacific Northwest would amount to less than 0.1 percent from a base of \$163 billion—regardless of which option is evaluated. Large irrigation water reductions reduce agricultural jobs by almost 2,700 (1.6 percent) and total jobs by 5,500 (0.1 percent). Capital expenditures on irrigation pump modifications and water diversion screens creates up to

1,500 short-term jobs in the Pacific Northwest economy, of which 500 are located in the Lower Snake region.

The impact on income and jobs are minor relative to the level of total economic activity in the Pacific Northwest economy. However, large reductions in irrigation water supplies produce noticeable impacts on the smaller Upper Snake subregional economy, reducing total income by \$83 million, or by about 0.6 percent. Job losses in agriculture amount to 2.500 or 7 percent. Total employment would fall by 4,100 jobs, or by almost 1 percent. Most job losses outside agriculture occur in the service sector. If producers were compensated for reducing their use of Upper Snake waters, expenditure from this compensation could restore 500 service jobs in the Upper Snake regional economy.

What do we make of these results? For the regional economy of the Pacific Northwest, the impacts are small. For the smaller Upper Snake subregion, a large reduction of irrigation water supply would alter cropping patterns and increase unemployment slightly. However, longer term dynamic adjustments in the economy could mitigate some of these impacts.

There is little precedent for developing resource management plans on this scale. Economic development of the Columbia-Snake River system forms the backbone of this diversified economy. For the regulatory agencies involved in salmon recovery, the challenge will be to construct an effective regional salmon recovery policy which both minimizes the costs to the region's economy and fairly distributes the burden of reduced access to a shared resource.

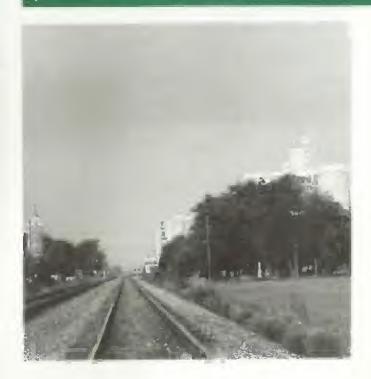
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# Upcoming Reports—USDA's Economic Research Service

The following reports or summaries will be issued at 3 p.m. ET on the release dates shown.

### November

- 10 Cattle and Sheep Outlook
  Fruit and Tree Nuts\*
- 14 Feed Update
  Oil Crops Update
- 16 Vegetables and Specialties\* Food aid Needs Assessment'
- 18 Agricultural Outlook\*
- 21 Wheat'
- 22 Cotton and Wool\*
  Livestock, Dairy and
  Poultry
  U.S. Agricultural Trade
  Update
- 23 Poultry Outlook
- 29 Agricultural Exports\*
- \* Release of Summary



# New Global Trade Rules To Benefit U.S. Agriculture

A fter 7 years of intense negotiations, 117 nations signed a historic trade agreement last spring, the culmination of the "Uruguay Round" of the General Agreement on Tariffs and Trade (GATT). No area of this ambitious reform of the world trading system represents a more significant accomplishment than the new rules which will open world agricultural markets.

The global trading environment for agriculture has been dominated by high tariff and nontariff barriers to trade, internal support measures that encourage inefficient production and suppress consumption, and strong competition from subsidized exports. These practices, many of which were banned or severely restricted in other sectors under previous GATT agreements, had made agriculture one of the most distorted segments of world trade.

Access to many markets for U.S. agricultural exports will improve substantially under the Uruguay Round agreement. And required reductions in trade-distorting internal support, export subsidies, and import protection will reverse the protectionism that has shut U.S. exports out of a number of growing markets.

Increased global income and demand, the opening of markets, and reductions in subsidized competition under the Uruguay Round are projected to increase U.S. agricultural exports by \$1.6-\$4.7 billion (4-10 percent) in 2000, and by \$4.7-\$8.7 billion in 2005 (8-15 percent), according to a study released last spring by USDA. Grains and animal products account for almost 75 percent of the increase. Increased U.S. exports will also mean more export-related jobs, particularly exports of high-value and value-added products.

Increased exports will raise farm prices, increase farm income, and lower government outlays on price and income support programs. Farm income is expected to rise by \$1.1-\$1.3 billion in 2000, while government outlays are projected to decline by \$0.7-\$1.3 billion. In 2005, farm income is projected up by \$1.9-\$2.5 billion, and government outlays could decline by \$2-\$2.6 billion.

Perhaps even more important for the future of agricultural trade is the discipline that the Uruguay Round applies to countries that otherwise might choose the direction of closed markets and high internal supports and prices—which induce high-cost production and suppress consumption, and can lead to subsidized exports.

The Uruguay Round represents the critical first step in establishing a level playing field for world agricultural trade. To keep the process moving forward, GATT members have committed to reconvene discussions on agricultural trade liberalization after 5 years. The Uruguay Round Agreement will not take effect in the U.S. until Congress adopts the implementing legislation. Both houses of Congress are scheduled to vote on the Uruguary Round legislation by early December.

# Key Provisions For Agriculture

The Uruguay Round agreement represents a dramatic change in direction for agricultural trade. It halts the further development and future adoption of the most serious trade-distorting practices and mandates reductions in many of those currently in place. The agreement also establishes important principles, like tariffication of nontariff barriers, and makes possible in future GATT rounds the negotiation of reductions in ordinary tariffs that will replace nontariff barriers.

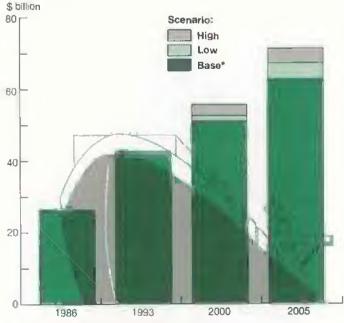
Provisions for agriculture cover four areas—market access, internal supports, export subsidies, and sanitary and phytosanitary rules—and will be implemented over a 6-year period (1995-2000) in developed countries. Developing countries will have 10 years to implement the new rules, and the reduction commitments are less than those for developed countries—generally two-thirds of corresponding commitments.

 Minimum market access provisions will pry open global markets by eliminating outright import bans, and by increasing access in countries where little or no trade has oc-

curred. At the beginning of the transition period, quotas, variable levies, discretionary licensing, monopoly state trading, and other nontariff barriers must be tariffied—replaced with bound ordinary tariffs that cannot be increased without providing compensation to affected trading partners. Current access requirements assure that trade will not be reduced because of tariffication. And tariffs on all agricultural products in developed countries must be reduced by a minimum 15 percent over 6 years, and must decline on average by 36 percent.

- Domestic producer support measures that distort trade are limited, and restrictions are placed on their expansion or adoption. Total internal support must be reduced by 20 percent over 6 years from the level of the 1986-88 base period. These restrictions provide a guarantee that agricultural policy reforms already adopted, such as the European Union's reform of the Common Agricultural Policy, cannot be reversed; and they prevent developing countries from adopting highly protective policies that heavily subsidize agriculture as they develop.
- U.S. deficiency payments and other direct producer payments that meet certain criteria—payments made on a fixed quantity and on less than base-period production—are exempted from the reduction in internal support for the 6-year implementation period. Support measures agreed upon as non-trade-distorting—including conservation measures, crop insurance and disaster assistance, extension programs, and income payments that are not based on current production levels—are exempt from the reduction requirements.

### GATT Accord is Expected To Boost U.S. Agricultural Exports



"Analysts" expectations under current programs.

- The use of agricultural export subsidies will be limited for the first time under GATT rules. By 2005, subsidized exports must be reduced 21 percent in volume and 36 percent in budget outlays below the 1986-90 base. Under the flexibility provisions, countries may phase in the export subsidy reductions for any commodity in equal annual increments from 1991-92 levels over 6 years. Products that did not receive export subsidies in the 1986-90 period will be ineligible for export subsidies in the future.
- The Uruguay Round agreement specifies that any sanitary or phytosanitary measure taken by an importing country for the purpose of protecting human, animal, or plant life or health must be based on science, and must be applied equally to imports and domestic production. The sanitary and phytosanitary provisions prevent countries from erecting barriers to trade in the guise of health-related regulations, while assuring every country's right to protect the health of its citizens. Countries may maintain standards that are stricter than international standards if scientific justification exists for taking the stricter measure.

New procedures to ensure effective enforcement of the agreement were also created under the Uruguay Round. Time limits are set for each stage of the dispute resolution process, and no country can block the formation of a GATT panel or block the adoption of a GATT panel report. And the Uruguay Round establishes a stronger, more efficient organization, the World Trade Organization (WTO), to facilitate trade relationships among countries and resolution of disputes.

# Policy Adjustments & Longer Term Benefits

Under the Uniquay Round of the GATT, the U.S. would need to make several adjustments in agricultural policy, including changes in its export subsidy programs and in policies related to market access. Because the U.S. has already reduced its internal supports by more than 20 percent since the 1986-88 base period, no further adjustments to internal supports are required to meet commitments under this part of the agreement.

U.S. commitments on market access mean that Section 22 quotas and the U.S. Meat Import Law would be replaced with tariffrate quotas with fixed tariffs on over-quota imports. The out-of-quota tariffs initially will afford approximately the same level of protection the quotas had provided. In addition, a special safeguard will be available if there is a surge in imports or if import prices drop significantly.

U.S. exports under the Export Enhancement Program (EEP), the Dairy Export Incentive Program (DEIP), the Sunflowerseed Oil Assistance Program (SOAP), and the Cottonseed Oil Assistance Program (COAP) would be reduced on a commodity basis by 21 percent in quantity terms and 36 percent in value from the 1986-90 base.

The Administration has committed to use these and other export programs to the maximum levels allowed under GATT and U.S. laws. The Administration has indicated it will request that Congress fund these programs to the fullest extent allowed under the Uruguay Round for the 6-year period covered by the agreement. As part of the implementation of the Uruguay Round, the Administration has decided to refocus EEP and DEIP so that in addition to their current use in combating unfair trade practices, they can also be used for market promotion and expansion.

The Administration also has indicated that it will propose increases in GATT-consistent agricultural programs by \$600 miltion over the next 5 years to provide broad support for market development of U.S. agricultural products. Direct spending, direct credits, and credit guarantees will be employed, and the effort will include funding for the Market Promotion Program and other programs that will aid a wide range of commodities including dairy, oilseed products, and high-value products. Assistance will be provided to help develop alternative uses for agricultural products as well.

Effects of the Uruguay Round agreement will be felt immediately, but longer term benefits are also important. The most immediate impacts of the agreement will result from the market access commitments. For example, Japan and Korea must abolish their rice import bans and open their markets to imports in 1995. To meet minimum access commitments, Japan will import almost 400,000 tons of rice in 1995, about 3 percent of world trade. The sanitary and phytosanitary provisions also should impact trade shortly after the agreement is implemented, as unjustified health-related barriers to imports are challenged.

The impacts from reductions in tariffs and the quantity and expenditure on subsidized exports are more gradual. Tariffs and export subsidies are reduced in equal annual installments; thus the impacts are modest initially but are quite significant by the end of the implementation period. The European Union's subsidized wheat exports, for example, will be about 7 million tons less in 2000 than in 1991/92.

While much attention has focused on the immediate improvements in market access and the cuts in subsidized exports under the Uruguay Round, broader benefits will also be realized in the long term. The agreement is expected to stimulate general economic growth worldwide, increasing global demand for food, feed, and fiber. The largest increases in incomes are expected in developing countries where the propensity to spend additional income on food and fiber is high. Due to the cumulative nature of the growth in world income, most of its impacts on commodity markets will occur after 2000.

# Economic Impacts On U.S. Agriculture

The economic effects of the Uruguay Round on U.S. agriculture were analyzed in a joint study released last spring by USDA's Office of Economics and Economic Research Service.

Four important summary measures of the effects of the Uruguay Round on U.S. agriculture are exports, aggregate farm sector income, export-related employment, and government outlays. The Uruguay Round is projected to result in higher U.S. exports, more export-related jobs, and higher aggregate farm sector income in 2000 compared with projections which exclude the Uruguay Round. Net farm program outlays are projected to decline. Larger gains are projected by the year 2005 because of world income growth due to the Uruguay Round.

The Uruguay Round Agreement will increase demand for U.S. exports significantly. The USDA analysis estimates that U.S. exports will increase in value by \$1.6-\$4.7 billion, 4-10 percent, in 2000. U.S. exports will increase in value by \$4.7-\$8.7, 8-15 percent, in 2005. Additional exports of grains and animal products are expected to account for almost 75 percent of the total export value expansion by 2005.

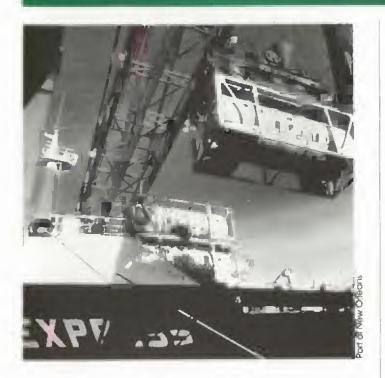
Net farm sector income is expected to rise by \$1.1-\$1.3 billion in 2000 and by \$1.9-\$2.5 billion in 2005, in spite of reduced deficiency payments and increases in input costs such as feed. Prices will increase for most U.S. crops and livestock products. Production also will increase for most products, and combine with higher prices to increase farm market receipts significantly.

Increased production, transport, processing, and marketing of agricultural products results in increased employment for the U.S. economy. Increased exports due to the Uruguay Round Agreement are projected to create an additional 41,000 to 112,000 jobs in the year 2000 and 105,000 to 190,000 jobs in 2005.

Increased exports will raise farm prices, which will lower deficiency payment rates, and export subsidy expenditures will be reduced. The reduction in government outlays due to lower deficiency payment rates will be offset somewhat by lower acreage reduction program requirements. Nonetheless, deficiency payments could fall by \$0.4-\$1 billion in 2000 and by \$1.7-\$2.4 billion in 2005. Feed grains account for almost 60 percent of the reduction.

Expenditures on export subsidies will be reduced by 36 percent from 1986-90 levels. This will mean a decrease in annual program levels of over \$500 million by the end of the implementation period (2000) and beyond. Commodity Credit Corporation outlays for dairy will rise because increased imports and the reduction of dairy export subsidies will raise net removals.

Prosperity and growth in U.S. agriculture is critically dependent on continuing growth in exports. Over 30 percent of U.S. cropland and crop production is effectively dedicated to production for exports. Growth in productivity in U.S. agriculture continues to increase several times as rapidly as domestic U.S. demand for agricultural products. U.S. agricultural exports must continue to grow—otherwise, resources must be withdrawn from agriculture and it must shrink. About 96 percent of the world's population lives outside the U.S. The future of U.S. agriculture depends on increased access to foreign markets. [Joe Glauber (202) 720-4164, Gene Hasha (202) 219-0818, and Michael Herlihy (202) 219-0628]



# GATT: Implications for U.S. Ag Export Programs

Provisions of the Uruguay Round of the General Agreement on Tariffs and Trade (GATT), awaiting Congressional approval, will have direct and indirect effects on U.S. agricultural export programs. A principal result of the Uruguay Round agreement will be a reduction in agricultural export subsidies worldwide. A key question policy makers face in the aftermath of a successful GATT is whether, and how, to change the types and the targets of export assistance programs.

The U.S. government supports a variety of agricultural export programs to boost U.S. shipments. These include programs that help U.S. exporters compete in terms of price, assist importers in obtaining credit to purchase U.S. commodities, influence consumer tastes and preferences, and provide food aid. Some U.S. agricultural commodities rely heavily on export programs. For example, about 80 percent of U.S. wheat is shipped under some form of government program.

In fiscal 1994, program levels for U.S. agricultural export assistance programs totaled about \$8 billion. The Administration has proposed increasing assistance to agricultural export programs not facing Uruguay Round reductions by up to \$600 million over the next 5 years.

How export assistance is provided depends on the time horizon in which benefits are to be realized. In the short run, price subsidies are the fastest way to increase sales, especially in the face of a competitor's subsidized pricing practices. Prime markets for price subsidies, however, are those that will continue to buy U.S. commodities when subsidies cease.

Credit guarantees can help buyers who are experiencing shortterm foreign exchange constraints, but have limited long-term effects on U.S. exports. Export gains from market promotion programs are realized over a greater period of time than price subsidies and credit guarantees, but typically require longer term investment.

Food aid is the most expensive short-term means to ensure export shipments. But when combined with other economic assistance programs, food aid has the potential to generate economic growth in recipient countries, and may lead to greater imports of U.S. agricultural products in the long term.

Several studies have examined the impact of government export assistance on trade, reaching a number of conclusions. First, the effects of export subsidies are dependent on market conditions: their effectiveness is greatest when surpluses exist and weakest when supplies are tight. Second, credit guarantees cannot fully compensate for elimination of price subsidies because the savings on interest expenses to importers are much smaller than the savings from price subsidies. Finally, market promotion programs for U.S. exports yield positive returns on investments.

A central question is how most effectively to assist U.S. agricultural exports in the future, and thus continue to support farm income. Because each commodity market has unique characteristics, and importers have different needs, no one program is sufficient. Thus, flexibility is needed to assist U.S. exporters in an increasingly liberalized trading environment.

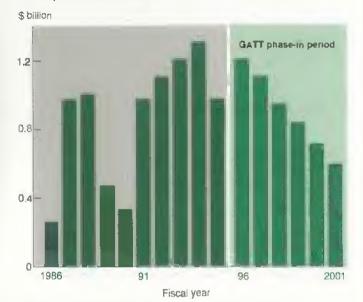
# GATT Accord To Reduce Export Subsidies

One of the chief goals of the Uruguay Round agreement is to reduce the volume and value of export subsidies. By the end of the 6-year phase-in period for the agreement, countries will be required to reduce, on a commodity basis, subsidized export volume 21 percent and subsidy expenditures 36 percent from the 1986-90 base period.

Negotiations in Brussels culminated in a GATT agreement in December 1993 that requires member nations to phase down export subsidies in equal increments from 1991-92 levels if these subsidies were higher than those of the 1986-90 base period. Only products whose exports were subsidized during the 1986-90 base period will be eligible for future export subsidies.

Although the European Union (EU) is the largest subsidizer of agricultural exports—with an average annual export subsidy outlay of \$12 billion between 1986-90, several additional Euro-

### U.S. Export Price Subsidies Would Drop Under GATT



Includes Export Enhancement Program. Dairy Export Incentive Program, the Cottonseed Oil and Sunflowerseed Oil Assistance Programs, and CCC dairy sales.

1986-94 actual expenditures, 1995 appropriations.

pean countries (including the Czech Republic, Hungary, and Sweden) and others provide direct export subsidies in years of surplus grain harvests. These subsidies will be reduced in the future as a result of GATT.

The U.S. is a major subsidizer of agricultural exports. The largest U.S. export price subsidy program is the Export Enhancement Program (EEP), with fiscal 1995 appropriations of \$800 million, down from 1994 spending of \$1.15 billion. Smaller programs include the Dairy Export Incentive Program (DEIP) and the Cottonseed Oil and Sunflowerseed Oil Assistance Programs (COAP and SOAP). Exports under EEP and these other price subsidy programs will be reduced on a commodity basis under the Uruguay Round Agreement.

The majority of U.S. export subsidies have assisted exports of wheat, dairy products, and vegetable oils. These subsidies have been especially important for several commodities. Shipments under EEP in fiscal 1993 accounted for 93 percent of U.S. barley exports, about 70 percent of table-egg exports, 60 percent of wheat shipments, and 55 percent of wheat flour exports. In total, EEP, COAP, and SOAP accounted for 73 percent of fiscal 1993 combined exports of cottonseed oil, soybean oil, and sunflowerseed oil.

U.S. implementing legislation for the Uruguay Round agreement will remove the legislative requirement that the EEP be used only to discourage unfair trade practices. DEIP regulations will be changed similarly. The SOAP and COAP do not have such requirements. The Administration has committed to use these and other programs to the maximum levels allowed under the Uruguay Round agreement and U.S. laws.

# Credit Guarantees To Continue

Many importers face foreign exchange constraints and need credit to purchase food. To assist U.S. exporters in these markets, the Commodity Credit Corporation (CCC) operates the Export Credit Guarantee Program (GSM-102) and the Intermediate Export Credit Guarantee Program (GSM-103). Annual export credit guarantee program levels have been about \$5.7 billion for the last several years, although actual sales have fluctuated.

The GSM-102 program, the largest U.S. agricultural export program, guarantees repayment of private commercial credit of up to 3 years for the export of selected agricultural commodities to specified countries; the GSM-103 program covers credit of 3 to 10 years. These programs enhance the ability of U.S. exporters to make sales.

Under the GATT accord, exporters' credit programs would not have to be curtailed, though Article 10 of the Uruguay Round agreement calls for exporters to develop and abide by guidelines governing export credits, credit guarantees, and insurance programs. The Organization for Economic Cooperation and Development has begun discussions on the nature of such guidelines.

Unrelated to the Uruguay Round agreement, another issue confronts U.S. credit guarantee programs. Current sales under GSM-102 are well below historic and authorized program levels. Recent political, economic, and social changes are creating private sectors throughout the world that would participate in agricultural trade with the U.S. if financing were available. The CCC will consider how to structure and fully utilize export credit and credit guarantee programs, taking into account the importance of these newly emerging markets.

# New Opportunities for Market Promotion Programs

Programs such as the Foreign Market Development Program (FMD) and the Market Promotion Program (MPP), are not required to be reduced under the Uruguay Round agreement. These programs provide assistance through supermarket promotions, nutritional information, trade servicing, technical assistance to food processors, and advertising. The MPP (authorized in the 1990 Farm Act) and the FMD (first authorized in 1954) are jointly funded by USDA, cooperating nonprofit commodity organizations, and U.S. companies.

MPP and FMD activities provide the means to introduce consumers in newly opened international markets to U.S. agricultural products. And because the Uruguay Round agreement will reduce trade barriers in many importing countries, these programs have the potential to expand U.S. exports of a wide

variety of agricultural products. As import quotas are converted to tariffs and the tariffs reduced, opportunities for U.S. agricultural product exports will grow.

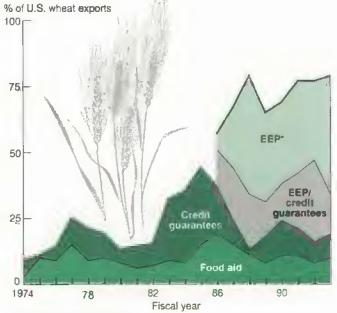
Unlike other U.S. export programs, the MPP primarily assists exports of high-value products. From 1989 through 1993, close to 80 percent of MPP funding (and that of its predecessor, the Targeted Export Assistance Program) assisted exports of high-value products, including meats, fruits, vegetables, tree nuts, and packaged grocery products. In contrast, 70 percent of funds for the smaller FMD helped develop markets for grains and oil-seeds during the same period.

From 1989 through 1993, most expenditures for MPP and FMD were directed to Japan, other East Asian countries, and Western Europe. However, in 1993, many program participants expanded their activities in Mexico, the Caribbean, and Canada. In addition, some MPP and FMD participants made smaller investments in promotion activities in China, Central Europe, Indonesia, Malaysia, and Middle and Near Eastern countries that year.

The MPP and FMD differ from other export programs in that they are not tied to a specific shipment. Hence, linkages between promotions and sales to foreign consumers are less obvious than for other programs. Also, penetrating and expanding export markets through promotion programs is a long-term activity, where payoffs typically do not occur for some time after initial investments.

Studies of the impact of market promotion programs on U.S. exports for several agricultural products (cotton, fresh and processed citrus, and red meat) in the 1970's and 1980's show in-

About 80 Percent of U.S. Wheat Exports Are Shipped Under Export Programs



'Export Enhancement Program.

creases in exports of several dollars for each dollar spent on promotion in export markets.

FMD funding is aimed chiefly at nonprofit commodity organizations that promote generic products such as cotton, rather than promoting specific corporate brands. In contrast, close to 40 percent of MPP funds are invested in jointly funded corporate promotions.

Many corporate participants in MPP are small firms which receive MPP assistance through regional trade associations. MPP allocations to regional trade associations in 1993 more than tripled from 1986 Targeted Export Assistance program allocations. MPP assistance to large processing firms and U.S. retail companies overseas may help these firms enter markets they would not otherwise consider, and promotion of specific brands of consumer-ready products can increase sales to brand-conscious foreign consumers.

For fiscal 1995, Congress appropriated \$85.5 million for the MPP, down from \$100 million in 1994 and a 50-percent drop from annual program funding from 1989 to 1992. Budget constraints are the primary reason for the decline. In addition, some policy makers perceive the MPP as assisting large, affluent firms that can finance their own advertising and promotions, which accounts for some of the decline in funding in recent years.

USDA contributed about \$20 million to FMD activities in 1995, down from \$34 million in 1994. USDA provides a large share of the funds for specific FMD and MPP activities, although the U.S. commodity organizations and companies also contribute funds and conduct the overseas marketing campaigns.

The U.S. is not the only exporter to use market promotion programs to develop export markets for agricultural products. USDA's Foreign Agricultural Service has estimated that, in 1993, governments and producers in major agricultural exporting countries spent \$500 million for activities similar to those of the FMD and MPP. Other nations' market development programs also include activities such as manufacturer and retail price promotions which are not allowed under U.S. market development programs.

The appropriate role for the U.S. government is an issue for future market development programs. Much of the current funding for export promotion by other exporting nations comes from producer assessments and other industry contributions.

However, in the aftermath of the Uruguay Round, national and local governments may increase their contributions to export market development activities to compensate for reductions in export price subsidies. Already, quasi-governmental agencies in France and Germany, financed by national treasuries as well as producer assessments and user fees, conduct promotional activities and counsel firms about exporting. In addition, the national and regional governments in Spain took on the full financial burden of agricultural export promotion.

# GATT & Budget Constraints To Affect Food Aid Programs

The U.S. has played a leading role in meeting the food needs of developing countries since the mid-1950's. The U.S. currently provides food aid through the P.L. 480 program (Food for Peace Program), through Section 416(b) of the Agricultural Act of 1949, as amended, and through the Food for Progress program (FFP).

P.L. 480 is comprised of the Title I, II, and III programs. Title I is a concessional sales program administered by USDA, while Titles II and III are donation programs administered by the Agency for International Development.

The section 416(b) program provides for overseas donation of surplus agricultural commodities owned by the CCC. The FFP provides food aid from CCC funds, Title I funds, or commodities under section 416(b) on a loan or grant basis for emerging democracies and for developing countries that are engaged in policy reforms to stimulate economic growth, particularly within the food and agriculture sectors. Both the Section 416(b) program and FFP are administered by USDA. Program levels for P.L. 480 have declined since 1993's record \$1.7 billion to an expected \$1.3 billion in 1995. Budget constraints account for much of the decrease.

The Uruguay Round agreement calls on signatory nations to abide by internationally-agreed-upon rules regarding food aid. These rules are designed to minimize disruption of commercial sales by food aid shipments.

The Uruguay Round agreement will have other impacts that affect the food aid needs of developing countries and food aid availabilities of developed countries. First, the agreement calls for less government support for agricultural production, which is expected to increase prices for certain agricultural commodities. World agricultural prices for grains and other temperate zone products are expected to be 5 to 10 percent higher than before the agreement. However, ministers to the GATT also agreed to ensure that implementation of the Uruguay Round agreement would not adversely affect food aid commitments to meet legitimate food needs of developing countries.

Second, to the extent that prices in developing countries are elevated by higher world market prices, some increases in their food production would be expected, thus reducing the need for food aid. Finally, the rise in world food prices together with the GATT-required cut in export subsidies will raise the cost of imports to many developing countries. Reduced surpluses and higher commodity prices can reduce food aid supplies, as has happened recently.

Even before the Uruguay Round agreement is in place, factors affecting the level of U.S. food assistance have changed. Large agricultural surpluses often tapped for overseas food assistance have declined due to increasingly market-oriented domestic agricultural policies initiated in 1985 and 1990 farm legislation.

For example, in fiscal 1994, USDA made available about 200,000 tons of grains and dairy products for programming under Section 416(b), compared with 2.9 million tons in fiscal 1993. CCC-owned grain stocks are expected to be lower in 1994/95 than the year before, potentially limiting Section 416(b) food aid shipments. Finally, the budget for P.L. 480 is expected to decline about 15 percent in fiscal 1995 from last year.

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New GATT report just released!

# Effects of the Uruguay Round Agreement on U.S. Agricultural Commodities

On December 15, 1993, the United States reached an historic agreement concluding the Uruguay Round of Multilateral Trade Negotiations under the auspices of the General Agreement on Tariffs and Trade (GATT). Benefits arising from the agreement include:

- U.S. farmers will gain from the increase in world income that will arise from the Uruguay Round agreement.
- U.S. agricultural exports are expected to increase by between \$1.6 billion and \$4.7 billion in 2000 and between \$4.7 billion and \$8.7 billion in 2005.
- Increased exports mean more export-related jobs, particularly or high-value and valueadded products.
- Increased exports will raise farm prices, increase farm income, and love Government outlays on price and income support programs.

 Perhaps even more important for the future is the discipline the Uruguay Round will apply to countries that might otherwise choose closed markets, production-inducing internal supports, and subsidized exports. This agreement has important consequences for our large trading partners that are currently outside the GATT: China, Taiwan, and the nations of the former Soviet Union.

# **Provisions of the Agreement**

The Uruguay Round (UR) Agreement is an historic effort to open world agricultural markets, prompting increased trade and dynamic growth. The agricultural agreement covers four areas implemented over a 6-year period, 1995-2000, export subsidies, market access provisions, internal supports, sanitary and phytosanitary measures.

# To Get the Full Report...

The information presented here is excerpted from Effects of the Uruguay Round Agreement on U.S. Agricultural Commodities, Stock # GATT-1. Price is \$9.00 (foreign orders, 11.25). To order your copy, please call our order desk toll-free at 1-800-999-6779. Or send your check to:

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# Statistical Indicators

# Summary Data

Table 1.—Key Statistical Indicators of the Food & Fiber Sector

	1993			1994				1995	
	Annual	1	II '	III	IV-F	Annual F	ĨF.	ИF	Annual F
Prices received by farmers (1977=100) Livestock & products Crops	143 162 123	148 161 134	142. 154 130	135 148 121		==	==	=	=
Prices paid by farmers, (1977,100) Production items Commodities & services, Interest, taxes, & wages	179 195	181 198	184 200	181 199	=	=	_	_	==
Cash receipts (\$ bil.) 1/ Livestock (\$ bil.) Crops (\$ bil.)	1 <b>7</b> 5 91 85	177 90 87	185 <b>87</b> 98	_				=	=
Market basket (1982–84=100) Retail cost Farm value Spread Farm value/retail cost (%)	142 105 162 26	145 108 166 26	145 102 168 25	=======================================			==		
Retail prices (1982–84±100) Food At home Away from home	141 140 143	143 143 145	144 143 145	145 145 146	=			===	==
Agricultural exports (\$ bit.) 2/ Agricultural imports (\$ bit.) 2/	42. <b>6</b> 24.5	11.1 6.6	10 3 6.6	9.3 5:7	11,8 6.6	42.5 25.5			43.0 <b>27</b> .5
Commercial production Red meat (mil. lb.) Poultry (mil. lb.) Eggs (mil. doz.) Milk (bi). lb.)	40.568 27,539 5.960 151.0	10,083 6,891 1,498 37.7	10,431 7,371 1,513 40.0	10,835 7,610 1,545 38,2	10,777 7,345 1,560 37,6	42.126 29,217 6,116 153.4	10,575 7,200 1,520 38,7	10.695 7,705 1,530 40.8	43.397 30. <b>385</b> 6,165 1 <b>56.</b> 7
Consumption, per capita Red meat and poultry (lb.)	207.6	50.5	52.2	54.4	55.0	212.1	52. <b>7</b>	53.7	217.6
Corn beginning stocks (mil. bu.) 3/ Corn use (mil. bu.) 3/	1,100.3 8,4 <b>76</b> .1	2,113.0 2.525.7	5,936.5 1,948.8	3.995.7 1,642.1	2,359.9 1.511.3	2,113.0 7,627.9	850.2		850.2 8,635.0
Prices 4/ Choice steers—Neb. Direct (\$/cwt) Barrows & glite—IA. So. MN (\$/cwt) Broilers—12-city (cts./lb.) Eggs—NY gr. A large (cts./doz.) Milk—all at plant (\$/cwt)	76.36 46.10 55.2 72.5 12.80	73.10 45.78 55.1 71.5 13.57	68.79 42.90 60.0 63.3 13.03	65.85 40.42 55.9 67.0 12.50	67-69 34-36 53-55 69-71 13:20-	68.94 41.03 56.3 68.0 13.10- 13.20	66-70 37-39 57-61 66-70 12.40- 13.10	66-72 37-41 53-57 59-63 11.20- 12.20	65-71 37-40 52-58 64-69 11,90- 12,80
Wheat—KC HRW ordinary (\$/bu.) Corn—Chicago (\$/bu.) Soybeans—Chicago (\$/bu.) Cotton—Avg. spot 41-34 (cts./lb.)	3.59 2.38 6.18 55.4	3.81 2.97 6.77 70.7	3.63 2.75 6.73 77.4	71.0	13.60	13.20	13.10	12.20	
	1986	1987	1988	1989	1990	1991	1992	1993	1994
Farm real estate values 5/ Nominal (\$ per acre) Real (1982 \$)	640 568	599 518	632 530	<b>661</b> 533	668 517	681 <b>5</b> 05	684 <b>487</b>	699 485	744 503

<sup>1/</sup> Quarterly data seasonally adjusted at annual rates. 2/ Annual data based on Oct.-Sept. fiscal years ending with year indicated 3/ Sept.-Nov. first quarter; Dec.-Feb. second quarter; Mar.-May third quarter; Jun.-Aug. fourth quarter; Sept.-Aug. annual. Use includes exports & domestic disappearance. 4/ Simple averages, Jan.-Dec. 5/ 1990-94 values as of January 1. 1986-89 values as of February 1. F = forecast. — = not available.

# U.S. & Foreign Economic Data

Table 2.—U.S. Gross Domestic Product & Related Data

		Annual			1993			1994
	1991	1992	1993	15	1(1	IV	]	
			\$ billion (qua	rteriy data sea	sonally adjust	ed at annual F	ates)	
Gross domestic product Gross national product	5,724.8 5,740.8	6.020.2 6.025.6	6,343.3 6,347.8	6,299.9 6,303.3	6,359.2 6,367.6	6,478.1 6,476.2	0,574.7 6,574.0	6,689.9 6,682.5
Personal consumption expenditures	3,902.4	4,136.9	4,376.2	4,347.3	4,401.2	4,469. <del>0</del> 562.8	4.535.0 576.2	4.586.4 580.3
Durable goods Nondurable goods	456. <b>8</b> 1.257.8	492.7 1,295.5	538.0 1,339.2	531.2 1. <b>334</b> .2	541.9 1,340.2	1,355.2	1,368.9	1.381.4
Clothing & shoes	213.0	227.7	235.4	233.2 648.0	235.9 851.7	240.7 660.8	241.9 667.9	243.9 <del>8</del> 75.5
Food & beverages Services	621.5 2,188.1	62 <del>0</del> .8 2,348.7	649.7 2,501.0	2,481,9	2,519,1	2,551.6	2,589.9	2.824.7
Gross private domestic investment	744.8	788.3	862.0	869.7	882.2	922.5	966.6	1.034.4
Fixed investment	746.6	765.2	866.7	851.1	868.3	913.5	942.5	967.0
Change in business inventories Net exports of goods & services	-1.8 -19.9	3.0 -30.3	15.4 -65.3	18. <b>6</b> -63.3	13.9 <b>-77.</b> 0	9.0 -71.2	24.1 -8 <del>0</del> .7	67.4 -97. <b>6</b>
Government purchases of goods & services	1,097.4	1,125.3	1,148.4	1,146.3	1,152,9	1,157.2	1,159.8	1.168.7
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•		adjusted at ani	nual cates)	
								5.044.4
Gross domestic product Gross national product Personal consumption	4,867.6 4.882.3	4.979.3 4,985.7	5,134.5 5,140 3	5,105.4 5,110.1	5,139.4 5,148.4	5.218.0 5,218.7	5.2 <del>8</del> 1.1 5.2 <b>6</b> 2.7	5,314.1 5.310.5
expenditures	3.259.4	3,349.5	3,458.7	3.439.2	3,472.2	3,508.2	3,546.3	3.557.8
Durable goods Nondurable goods	425.3 1,047.7	452. <b>6</b> 1,057.7	489.9 1,078.5	483.7 1.074.3	492.7 1.081.7	510.8 1.088.0	521.7 1,098.3	522.2 1,104.3
Clothing & shoes	184.7	193.2	197.8	196.1	198.6	202.4	203.8	204.9
Food & beverages Services	518.8 1,786.3	514.7 1.839.1	524.0 1.890.3	522.3 1,681.2	525.1 1,697.6	528.1 1,907.4	531.9 1,926.3	536.1 1,931.4
Gross private domestic Investment	683.8	725.3	819.9	806.2	821.8	862.5	898.9	950.9
Fixed investment Change in business inventories	684.9 -1.1	722.9 2.5	804.6 15.3	797.3 18.9	808.8 13.0	851.7 10.8	873.4 25.4	891.7 59.2
Net exports of goods & services	-19.5	-32.3	-73.9	-69 3	-86.3	-82.2	-104.0	-111.8
Government purchases of goods & services	944.0	936.9	929.8	929.3	931.8	931.5	919.9	917.1
GDB (-pliest price deflator (04 chance)	3.8	2.8	2.2	1.8	1.0	1.3	2.9	2.9
GDP implicit price deflator (% change) Disposable personal income (\$ bil.)	4,236 6	4,505.B	4,688.7	4,678.6	4,700.5	4,777.6	4.832.B	4.913.5
Disposable per. Income (1987 \$ bil.)	3,538.5	3,648.1	3,704.1	3,701.3 18,141	3,708.4 18,174	3,747.8 18,421	3.779.2 18.588	3,811.5 18,853
Per capita disposable per Income (\$) Per capita dis. per. Income (1987 \$)	1 <b>6,766</b> 14,003	17.636 14,279	18.153 14,341	14,351	14,338	14.451	14.535	14,625
U.S. population, total, incl. military abroad (mil.) 1/	252.6	255.5	256.2	257.8	258.5	259.2	259 9	260.5
Civilian population (mil.) 1/	250.5	253.5	258.4	256.0	256.7	257.5	258,1	258.8
		Annual		1993		1	994	
	1991	1992	1993	Aug	May	June	July	Aug P
			9	Jonthly data 84	asonally adju	Stad		
Industrial production (1987=100) Leading economic Indicators (1987=100)	104.1 97.1	108.5 98.1	110.9 98.7	111.1 98.4	116 <b>6</b> 101.3	117.3 101.5	117.7 101.5	118.5 102.1
Civilian employment (mil. persons) 2/	116.9	117.8	119.3	119.7	122.9	122.4	122.5	123.2
Civilian unemployment rate (%) 2/ Personal income (\$ bil. annual rate)	6 6 4.860.3	7.3 5,154.3	6.7 5.375.1	5.415.4	8.0 5 <b>.665</b> .4	6.0 5.674.9	6.1 5,702.9	5,726.8
Money stock-M2 (daily avg.) (\$ bil.) 3/ Three-month Treasury bill rate (%)	3,455.3 5.42	3,509.0 3.45	3.567.9 3.02	3.536.1 3.05	3.596.1 4.19	3,589.4 4,18	3.603.0 4.39	3,596. <b>6</b> 4,50
AAA corporate bond yield (Moody's) (%) Housing starts (1,000) 4/	8.77 1.014	8.14 1,200	7.22 1,288	6.85 1,319	<b>7.99</b> 1,491	7.97 1.358	8.11 1,413	8.07 1.442
Business inventory/sales ratio	1.54	1.50	1.45	1.45	1.41	1.40	1.42	100 6
Sales of all retail stores (\$bil.) 5/ Nondurable goods stores (\$ bil.)	1,863.0 1,20 <b>9</b> .5	1,959.1 1,251.8	2.081.6 1,297 0	174.3 107.9	183.4 111.5	185.1 112.2	185.1 112.8	186.6 113.3
Food stores (\$ bil.)	379.3	382.4	392.4	32.7	33.6	33.5	33 6	33.7
Eating & drinking places (\$ bil.) Apperel & accessory stores (\$ bil.)	194.1 <b>97</b> .3	200.6 104.1	211.0 106.1	17.8 8.8	18,6 8,8	18.7 8.9	19.0 6.9.	18.8 9.1
rapported of acceptance in acceptance for mile.)	₩r9	199.1	100.1	w 10		0.0		

<sup>1/</sup> Population estimates based on 1990 census. 2/ Data for 1994 are not directly comparable with data for 1993 and earlier years. 3/ Annual data as of December of the year listed. 4/ Private, including farm. 5/ Annual total. P = preliminary. — = not available.

Information contact: Ann Duncan (202) 501-8541.

Table 3.—World Economic Growth

	1984	1985	1986	1987 /	1988	1989	1990	1991	1992	1993 E	1994 F	1995 F	Average 1984-93
		-					Real GDP.	annual pe	rcent chai	nge			
World World, less U.S.	4 3 3.6	3.3 3.4	2.7 2.7	3.1 3.1	4.4	3.3 3.0	2.2 2.7	0.7 1.2	2.0 1.7	1.6 1.0	2.8 2.4	3 2 3.3	2.8 2.8
Developed Developed, less U.S. United States Canada Japan Western Europe European Union Germany	4 3 3.2 6.0 6.4 4.3 2.4 2.3	3.2 3.4 3.0 4.7 6.0 2.5 2.4 1.9	2.7 2.7 2.6 3.3 2.7 2.7 2.7 2.2	3.1 3.2 3.0 4.1 4.1 2.6 2.7 1.4	4.4 4.5 3.9 4.7 6.2 3.7 3.9 3.7	3 3 3.6 2.6 2.5 4.7 3.2 3.3 3.0	2.4 3.5 0.8 0.4 5.2 2.8 2.9 5.7	0.9 1.9 -0.7 -1.7 4.3 1.1 1.5 4.5	1.7 1.0 2.6 0.7 1.1 0.9 1.1 2.1	1.0 -0.1 3.1 2.2 0.0 -0.5 -0.3 -1.2	2.5 1 8 3.8 0.9 1.9 1.9	2.8 2.7 3.0 3.2 2.5 2.7 2.7	2.7 2.7 2.7 3.8 2.2 2.7
Central Europe Former Soviet Union Russia	4.2 4.1 2.6	2.4 1.7 2.6	2.9 3.6 3.4	2 2 2.8 2.1	2.2 5.3 5.6	-0.9 3.0 2.5	-8 5 -2.0 -2	-11.3 -11.6 -9	-4.7 -18.2 -19	0.8 -13.0 -11.9	2.0 -18.0 -11.2	3.1 -4.0 -3.8	-0 9 -2.4 -2 9
Developing Asia Pacific-Asia China South Asia India Latin America Mexico Caribbean/Central South America Brazil Middle East Africa North Africa Sub-Sahara Middle East & N. Africa	4.3 7.4 8.4 14.4 3.9 3.7 0.5 4.1 5.4 0.3 1.0 2.8 -0.1	39 627 1256 1256 127 220 79 -031 339 0.5	3.5 3.3 3.3 3.3 4.1 4.5 9.1 1.1 8.0 9.2 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3	4.0 7.4 91.0 11.8 4.9 2.1 8.2 2.5 3.3 -2.6 0.2 8 -1.4	4.4 9.1 9.5 10.7 9.7 0.8 1.2 -0.8 -0.2 -2.5 2.9 1.5.7 -1.1	3.7 5.6 6.1 4.3 5.0 1.3 4 2.1 5.3 3.3 3.4 3.8 3.8 3.8	3.51 8.4 8.5 5.5 8.1 1.5 4.7 2.1 1.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	3.7 5.1 6.4 1.8 1.3.1 3.6 0.9 1.3.1 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	5.2 7.0 9.0 14.0 4.5 2.2 2.3 -0.6 1.2 1.4 1.1	5.0 11.4 14.1 13.4 4.1 -6.5 0.4 2.2 4.0 4.7 2.0 1.6 2.3 3.6	56 74 82 93 115 55 22 23 34 44 33 32 23 33 34 34 34 34 34 34 34 34 34 34 34 34	5.8 7.0 7.7 9.8 4.9 3.8 4.2 3.7 3.7 2.7 3.7 2.7 6.3 5.5	4.1 7.2 8.9 4.9 4.6 2.0 1.3 2.8 0.7 0.7 1.9 1.1

E = Estimate. F = forecast.

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# Farm Prices

Table 4.—Indexes of Prices Received & Paid by Farmers, U.S. Average

		Annual		1993		1994				
	1991	1992	1993	Sept	Apr	May	Juni	July	Aug R	Sept F
					1977 = 100	)				
Prices received All farm products	148	139	143	145	146	142	138	133	137	134
All crops	129	121	123	128	131	131	127	118	123	123
Food grains	115	139	129	124	160	145	135	127	132	14
Feed grains & hay	117	116	115	114	135	135	131	117	113	11
Feed grains	115	114	110	109	128	127	128	112	108	10
Cotton	108	8.8	90	86	112	115	105	97	10B	10
Tohacco	161	164	164	164	152	152	152	134	143	16
Oll-bearing crops	91	88	95	97	103	106	105	95	90	- (
Fruit, all	264	175	175	258	153	155	142	137	176	16
Frush market 1/	288	179	182	284	155	158	145	138	185	- 11
Commercial vegutables	135	158	159	147	117	124	138	138	141	11
Fresh market	140	156	186	151	109	118	133	134	139	13
Potatose & dry beans	141	124	151	131	191	107	188	188	171	1
Coldings a dry paging	101	157	162	160	181	154	148	147	150	1
Livestock & products	188	178	183	181	178	189	160	180	186	- 1
Meat animals	128	135	132	132	138	133	1311	127	129	1:
Dairy products	124	117	128	125	128	129	130	128	127	1
Poultry & eggs	124	717	120	120	120					
ces paid										
ommodities & services.	187	189	195	195	200	200	200	199	199	1
nterest, taxee, & wage rates	173	174	179	179	184	184	184	181	181	- 11
roduction items	123	123	124	17.0	138			127	_	
Feed Feeder livestock	214	202	218		208	_	_	193	_	
Feeder IIVestock Seed	163	162	189		175	-		175	_	
Fertilizer	134	131	128	_	437	-		137	_	
nerunzer Agriculturas chemicale	151	159	165		168	-	-	188		
Agriculturiis chemicalis Fuels & energy	203	199	201	_	195		_	201	_	
Farm & motor supplies	157	150	180	-	158	_	_	158	_	
Autos & trucks	244	256	272	_	288	_	_	284	_	
Tractors & self-propelled machinery	211	219	227	_	240	-		240	_	
Other mechinery	228	233	243	<u></u>	258		_	258		
Building & tencing	148	150	159	-	168	-	_	188	_	
Farm services & cash rent	109	171	174	-	175	-	_	175	_	
nt, payable per acre on farm real estate debt	137	129	123	-	130	_	_	130	_	
axes payable per acre on farm real estate	165	172	180	-	189	_	_	189	_	
Vage rates (seasonally adjusted)	201	210	217		224	_	_	224	_	
Production items. Interest, taxes, & wage rates	172	173	178	_	183	_	_	180	_	
atio, Prices received to prices paid (%) 2/	78	74	73	74	73	71	89	67	69	
ices received (1910-14=100)	986	636	653	661	668	651	630	607	625	- 6
rices paid, etc. (parity Index) (1910-14=100)	1,286	1,303	1,340	-	1.379	_	_	1.368		
arity ratio (1910-14=100) (%)2/	52	49	49		48	_	_	45	_	

1/ Fresh market for noncitrus; fresh market & processing for citrus. 2/ Ratio of index of prices received for all farm products to index of prices paid for commodities & services, interest, taxes, & wage rates. Ratio uses the most recent prices paid index. Prices paid data are quarterly & will be published in January, April, July, & October, R = revised. P = preliminary. — not available.

Information contact: Ann Duncas (202) 501-8541.

Table 5.—Prices Received by Farmers, U.S. Average

		Annual 1/		1993				1994		
CROPS	1991	1992	1993	Sept	Apr	May	June	July	Aug R	Sept P
All wheat (\$/bu.) Rice, rough (\$/cwt) Corn (\$/bu.) Sorghum (\$/cwt)	3.00	3.24	3.26	3.10	3.55	3.41	3.21	3.03	3.25	3.60
	7.58	5.89	8.08	5.21	9.93	10.00	8.88	7.80	6.75	<b>6.69</b>
	2.37	2.07	2.50	2.21	2.65	2.60	2.61	2.28	2.16	2.09
	4.01	3.38	4.16	3.69	4.20	4.20	4.24	3.71	3.73	3.52
All hay, baled (\$/ton)	71.20	74.30	81.60	76.80	98.20	100.00	88.70	82.50	83.10	62.40
Soybeans (\$/bu.)	5.58	5.56	6.40	6.21	6.57	6.77	6.72	5.92	5.58	5.31
Cotton, upland (cts./ib.)	56.8	<b>54.9</b>	59.0	51.9	67.7	69.3	63.5	58 4	65.5	65.1
Potatoes (\$/cwt)	4.96	5.52	6.22	5.11	7.76	6.63	6.58	7.54	6.86	5.29
Lettuce (\$/cwt) 2/	11.40	12.40	16.00	18.80	11.70	11.30	13.80	10.40	10.90	19.00
Tomatoes fresh (\$/cwt) 2/	31.80	35.80	31.60	29.80	16.50	20.60	29.10	27.50	33.50	24.80
Onions (\$/cwt)	12.50	13.00	15.80	13.20	10.20	8.34	8.25	12.80	9.13	9.52
Dry edible beans (\$/cwt)	15.60	19.90	24.10	21.30	25.80	25.20	25.30	27.20	24.80	20.90
Apples for fresh use (cts./lb.) Pears for fresh use (\$/ton) Oranges, all uses (\$/box) 3/ Grapefrult, all uses (\$/box) 3/	25.1	19.5	18.2	24.5	16.1	14.8	13.7	13.1	20.3	21.7
	385.00	378.00	280.00	366.00	208.00	194.00	175.00	326.00	294.00	345.00
	6.79	.5.50	3.11	11.85	5.35	5.61	5.31	3.47	4.56	2.53
	5.55	6.23	2.60	4.20	2.27	1.53	0.97	1.82	3.67	4.39
LIVESTOCK Beef cattle (\$/cwt) Calves (\$/cwt) Hoge (\$/cwt) Lambs (\$/cwt)	72.87	71.33	73.38	71.40	72.00	67.20	62.70	62.90	65.90	64.30
	99.93	89.38	95.92	93.50	95.70	89.60	84.90	83.90	84.50	82.10
	48.78	41.82	45.40	47.80	42.70	42.60	42.60	42.30	41.80	35.80
	52.49	60.78	84.60	64.50	54.70	54.70	61.10	72.00	75.00	73.10
All milk, sold to plants (\$/cwt) Milk, manuf, grade (\$/cwt) Broilers (cts./lb.) Eggs (cts./doz.) 4/ Turkeys (cts./lb.)	12.27	13.15	12.86	12.80	13.50	12.90	12.70	12.30	12.50	12.70
	11.05	11.91	11.80	11.90	12.60	11.50	11.00	11.10	11.40	11.80
	31.0	30.8	34.2	38.5	35.3	37.1	37.7	36.9	35.1	35.5
	66.0	58.2	62.7	55. <b>5</b>	61.7	58.2	58.2	57.2	59.9	60.5
	37.7	37.6	39.0	41.1	39.1	39.5	40.0	41.2	41.7	42.6

<sup>1/</sup> Season average price by crop year for crops. Calendar year average of monthly prices for livestock. 2/ Excludes Hawaii. 3/ Equivalent on-tree returns. 4/ Average of all eggs sold by producers including hatching eggs & eggs sold at retail. P = preliminary. R = revised.

— = not available.

Information contact: Ann Duncan (202) 501-8541

#### **Producer & Consumer Prices**

Table 6.—Consumer Price Index for All Urban Consumers, U.S. Average (Not Seasonally Adjusted)

	Annual	1993				1994				
	1993	Sept	Feb	Mar	Apr	May	June	July	Aug	Sept
				1	962-84=10	0				
Consumer Price Index, all items	144.5	145.1	146.7	147.2	147.4	147.5	148.0	148.4	149.0	149.4
Consumer Price Index, less food	145.1	145.1	147.3	148.0	148.1	148.3	148.8	149.1	.149.8	150.2
All food	140.9	141.1	142.9	143.2	143.4	143.5	143.5	144.2	144 8	145.0
Food away from home	143.2	143.8	144.6	144.8	145.1	145.3	145.5	145.6	145.8	146.2
Food at home	140.1	140.0	142.6	142.8	143.0	143.0	142.9	144.0	144.7	145.0
Meats 1/	134.6	135.5	136.0	136.4	136.0	136.2	135.4	134.7	135.1	135.0
Beef & veal	137.1	137.0	136.9	138.0	137.1	137.1	136.1	134.4	134.0	135.1
Pork	131.7	134.6	134.1	134.6	133.5	134.4	134.6	134.7	134.7	134.8
Poultry	136.9	138.0	140.4	140.1	140.9	141.8	143.6	144.1	141.7	143.3
Fish	156.6	155.4	160.9	161.8	163.7	181.6	162.8	163.2	183.8	164.9
Eggs	117.1	113.4	117.4	120.5	115.7	107.3	110.8	109.2	115.5	113.9
Bairy products 2/	129.4	129.6	131.8	131.8	131.8	132.0	132.2	131.8	131.8	131.3
Fats & olts 3/	130 0	130.0	131.5	132.6	133.2	133.4	133.5	135.1	134.1	134.2
Fresh fruit	188.8	193.3	194.8	199.1	198.1	204.6	193.3	199.6	201.9	203.9
Processed fruit	132.3	132.4	133.0	133.3	133.9	132.8	132.6	133.8	132.1	132.4
Fresh vegetables	168.4	157.4	168.1	167.0	163.9	162.8	168.7	170.2	163.7	163.5
Potatoes	154.6	156.1	171.3	179.8	186.3	179.9	185.7	194.1	190.4	168.8
Processed vegetables	130.8	130.9	138.1	135.7	136.4	137.2	137.3	138.4	138.5	137.7
Cereals & bakery products	156.6	157.7	161.3	160.4	162.5	162.3	163.4	163.9	1 <b>64.7</b>	164.8
Sugar & sweets	133.4	133.3	135.6	135.3	135.9	135.5	134.9	135.2	135.1	135.4
Beverages, nonalcoholic	114.6	113.8	116.0	118.0	115.5	115.6	115.8	122.8	131.3	132.1
Apparel, commodities less footwear	131.9	133.0	130.1	134.5	134.7	133.6	131.4	128.1	128.4	132.3
Footwear	125.9	126.2	125 9	127.0	128.0	128.5	127.3	125.0	124.5	125.1
Tobacco & smoking products	228.4	215.1	217.4	217.7	218 0	220.6	220.6	221.3	221.7	220.8
Beverages, alcoholic	149.6	149.9	151.1	151.4	151.6	151.5	151.7	151.6	151.3	151.4

<sup>1/</sup> Beef, yeal, lamb, pork. & processed meat. 2/ includes butter. 3/ Excludes butter.

Information contact: Ann Duncan (202) 501-8541.

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Table 7.—Producer Price Indexes, U.S. Average (Not Seasonally Adjusted)\_

		Annual		1993			1	994		
	1991	1992	1993	Aug	Mar	Apr R	May	June	July	Aug
					1982 =	100				
All commodities	116.5	117.2	118.9	118.7	119.7	119.7	119.9	120 4	120.8	121.2
Finished goods 1/	121.7	123.2	124.7	124.2	124.9	125.0	125.3	125.5	126.0	126.6
All foods 2/	122.2	120.9	123.6	123.2	126.1	125.7	125.2	124.2	124.0	125.0
Consumer foods	124.1	123.3	125.7	125.4	127.5	127.1	126.5	125.9	126.2	127.1
Fresh fruit & melons Fresh & dried vegetables Dried fruit Canned fruit & juice Frozen fruit & juice	129,9 103.8 111.8 128.6 116.3	84.0 115.0 114.6 134.5 125.9	84.2 133.5 118.2 126.1 110.9	84.7 117.6 118.1 126.8 114.0	87.4 116.6 120.6 125.6 113.2	82.0 113.3 120.9 126.7 113.1	89.6 117.1 123.0 125.9 112.2	80.2 120.5 123.3 126.4 110.6	83.5 120.6 121.6 .126.2 110.0	80.2 111 4 122.3 125.8 109.9
Fresh veg. excl. potatoes Canned veg. & juices Frozen vegetables Potatoes Eggs for fresh use (1991=100) Bakery products	100.2 112.9 117.6 125.7 3/ 146.6	116.4 109.5 116.4 118.4 78.6 152.5	126.4 110.6 121.0 144.9 86.6 156.6	110.5 109.6 122.1 143.7 89.0 156.8	96.1 116.8 126.1 180.3 91.8 158.8	91.4 116.5 126.4 167.8 81.5 159.2	91 5 119.7 128.2 147.8 69.2 159.6	94.9 118.8 127.2 150.8 74.9 160.1	104.8 119.4 127.0 151.1 73.7 160.3	95.7 121.4 126.9 154.0 91.6 160.3
Meats Beef & veal Pork Processed poultry Fish Dairy products Processed fruits & vegetables Shortening & cooking oil Soft drinks	113.5 112.2 113.4 109.9 149.5 114.6 119.6 116.5 125.5	106.7 109.5 98.9 109.0 156.1 117.9 120.8 115.1 125.6	110.5 112.9 105.4 111.6 158.7 118.1 \$18.3 123.0 f26.3	110.2 110.9 107.0 112.8 145.4 117.9 118.7 125.7	110.3 110.5 108.5 118.2 162.7 120.6 121.4 140.7 127.2	109.5 110.3 106.4 117.3 159.9 121.4 121.7 140.0 127.1	106.6 106.6 103.1 118.9 158.1 121.1 122.9 143.3 126.9	103.5 101.2 101.8 117.1 160.1 118.7 122.2 141.0 126.8	101.2 96.8 101.6 116.8 159.1 117.3 122.2 132.8 126.7	104.8 102.9 102.6 115.2 160.7 118.6 122.7 131.4 126.0
Consumer finished goods less foods	119.7	120.8	121.7	120.9	120.4	120.7	121.3	121.9	122.5	123.3
Beverages, alcoholic Apparel Footwear Tobacco products	123.7 119.6 128.6 249.7	128.1 122.2 132.0 275.3	126.0 123.2 134.4 260.1	125.8 123.3 134.8 213.3	125.5 123.6 135.4 224.7	124.2 123.3 135.2 224.7	125.3 123. <b>6</b> 135.7 224.7	124.2 123.3 135.2 224.9	124.2 123.4 135.3 224.7	124.1 123.6 135.2 223.1
Intermediate materials 4/	114.4	114.7	116.2	116.6	116.8	116.9	117.3	118.0	118.5	119.4
Materials for food manufacturing Flour Refined sugar 5/ Crude vegetable oils	115.3 96.8 121.6 103.0	113.9 109.5 119.8 97.1	115.6 109.3 118.3 110.3	118.1 109.2 118.4 114.4	119.9 111.0 118.0 140.0	120.7 110.2 117.9 137 2	120.3 111.0 118.4 138.5	118.1 108.4 118.5 136.6	116.4 101.8 118.9 123.5	117.9 102.5 118.9 122.1
Crude materials 6/	101.2	100.4	102.4	100.6	104.1	104.1	103.3	103.6	102.1	101.4
Foodstuffs & feedstuffs Fruits & vegetables & nuts 7/ Grains Livestock Poultry, live	105.5 114.7 92.0 107.9 111.2	105.1 96.9 97.3 104.7 112.6	108.4 106.0 94.4 107.0 122.0	108.0 99.7 93.9 107.1 125.9	114.2 100.0 112.5 104.7 129.5	113.1 96.8 109.3 104.9 126.8	110.0 101.0 106.8 98.5 138.2	107.7 98.8 110.1 92.4 135.2	104.0 100.1 96.4 94.3 131.0	101.7 95.1 90.2 96.8 119.9
Fibers, plant & animal Fluid milk Oliseeds Tobacco, leaf Sugar, raw cane	115.1 89.5 108.4 101.1 113.7	89.8 96.1 107.5 101.0 112.1	91,3 93.8 115.9 99.6 113.2	88.5 92.6 123.8 93.1 115.9	120.8 99.3 129.4 91.8 114.9	123.4 99.7 125.3 98.9 115.4	129.2 97.6 125.5 98.9 115.6	129.4 94.0 129.9 116.9	114.5 93.6 117.2 98.9 117.3	118.7 91.5 107.7 91.1 115.0

<sup>1/</sup> Commodities ready for sale to ultimate consumer. 2/ Includes all raw, Intermediate, & processed foods (excludes soft drinks, alcoholic beverages, & manufactured animal feeds). 3/ New Index beginning Dec. 1991. 4/ Commodities requiring further processing to become finished goods. 5/ All types & sizes of refined sugar. 6/ Products entering market for the first time that have not been manufactured at that point. 7/ Fresh & dried. R = revised.

Information contact: Ann Duncan (202) 501-8541,

#### Farm-Retail Price Spreads

Table 8.—Farm-Retail Price Spreads

		Annual		1993			1:	904		
	1991	1992	1993	Aug	Mar	Apr	May	June	July	Aug
Market basket 1/				-	144.6	144.0	144.9	144.9	145.3	145.2
Retail cost (1982–84=100)	137.4 106.1	138.4 103.4	141.9 104.9	141.8 103.9	108.1	144.8 103.1	103.0	100.0	97.7	98.8
Farm value (1982–84=100) Farm–retail spread (1982–84=100)	154.2	157.3	161.9	162.2	165.3	167.3	167.5	169.1	171.0	170.1
Farm value-retail cost (%)	27.0	26.2	25.9	25.7	25.7	24.9	24.9	24.2	23.6	23.8
Meat products	100 6	130.7	134.6	135.6	136.4	136.0	136.2	135.4	134.7	135.1
Retail cost (1982~84=100) Farm value (1982~84=100)	132.5 110.0	104.5	107.2	103.7	103 1	102.1	99.3	93.0	90.3	94.1
Farm-retail spread (1982-84=100)	155.6	157.5	162.8	168.3	170.5	170.8	174.0	178.9	180.3	177.1
Farm value-retail cost (%)	42.0	40.5	40.3	38.7	38.3	38.0	36.9	34.8	33 9	35.3
Dairy products	105 1	128.5	129.4	130 5	131.8	131.8	132.0	132.2	131.8	131.8
Retail cost (1982–84=100) Farm value (1982–84=100)	125.1 90.0	95.9	93.0	93.5	96.6	96.2	98.7	96.0	89.9	89.0
Farm-retail spread (1982-84=100)	157.5	158.6	162.9	164.6	164.2	164.6	184.5	165.6	170.5	171.3
Farm value-retail cost (%)	34.5	35.8	34.5	34.4	35.2	35.0	35. <b>2</b>	34.8	32.7	32.4
Poultry	131.5	131.4	136.9	137.5	140.1	140.9	141.8	143.6	144.1	141.7
Retail cost (1982–84=100) Farm value (1982–84=100)	102.5	104.0	111.5	117.5	114.3	114.6	119.7	121.5	120.0	115.3
Farm-retail spread (1982-84=100)	164 9	163.0	166.2	160.5	169 8	171.2	167.3	169.0	171.9	172.1
Farm value-retail cost (%)	41.7	42.4	43.6	45.7	43.7	43.5	45,2	45.3	44 6	43.6
Eggs	121,2	108.3	117.1	117.4	120.5	115.7	107.3	110.8	109.2	115.5
Retail cost (1982 <b>–84≃100</b> ) Farm value (1982–84≃100)	100.9	77.8	88.9	88.0	95.4	85.2	78.0	77.0	74.6	80.6
Farm-retail spread (1982-84=100)	157.6	183.2	167.8	170 2	165.6	170.4	159.9	171 5	171.4	178.2
Farm value-retail cost (%)	53.5	46.1	48.8	48.2	50.9	47.3	46.7	44.6	43.0	44.8
Cereal & bakery products Retail cost (1982–84⊯100)	145.8	151.5	158.6	157.5	160.4	162.5	162.3	163.4	163.9	164.9
Farm value (1982-84=100)	85.3	94.7	91.4	88.0	110.8	107.9	105.1	100.9	93.0	94.7
Farm-retail spread (1982-84=100)	154.3	159.4	185.6	167.2	167.3	170.1	170.3	172.1	173.8	174.7 7.0
Farm value-retail cost (%)	7.2	7.7	7.1	6.6	8.5	B.1	7.9	7.6	6.9	7.0
Fresh fruits Retail cost (1982-84=100)	200.1	189.6	195.8	192.1	204.5	205.0	212 5	200.6	207.4	208.5
Farm value (1982-84=100)	174.4	122.5	134.8	139.5	114.3	113.1	124.9	103.3	114.7	119.8
Farm-retail spread (1982-84=100)	211.9	220.6	224.0	216.4	246.1	247.4	252.9	245.5	250.2 17.5	249.6 18.1
Farm value-retail cost (%)	27.5	20.4	21.7	22.9	17.7	17.4	18.6	16.3	17.5	10.1
Fresh vegetables Retail costs (1982-84=100)	154.4	157.9	168.4	158.1	167.0	163.8	162.8	168.7	170.2	163.7
Farm value (1982-84=100)	110.8	120.5	128.4	117.0	132.2	102.5	104.2	112.3	117.0	114.9
Farm-retail spread (1982-84=100)	176.8	177.2	189.0	176.2	184.9	195.3	192.9	197.7	197.5 23.3	188.B 23.8
Farm value-retail cost (%)	24.4	25 9	25.9	25.5	26.9	21.3	21.7	22.6	23.3	20.0
Processed fruits & vegetablee Retail cost (1982-84=100)	130.2	133.7	131.5	131.7	134.2	134.8	134.4	134 5	135.7	134.7
Farm value (1982-84=100)	120.6	129.0	106.3	105.8	114.6	113.6	114.0	113.5	116.2	115.1
Farm-retail spread (1982-84=100)	133.2	135 2	139.4	139.8	140.3	141.4	140.8	141.1	141.8 20.4	140.8 20.3
Farm value-retail costs (%)	22.0	22.9	19.2	19.1	20.3	20.0	20.2	20.1	20.4	20.0
Fats & oils Retall cost (1982–84≐100)	131.7	129.8	130.0	130.1	132.6	133.2	133.4	133.5	135.1	134.1
Farm value (1982-84=100)	98.0	93.2	107.5	107.8	129.5	123.5	129.0	126.2	114.2	112.5
Farm-retail spread (1982-84=100)	144 2	143.3	138.3	138.3	133.B 26 3	135 8 24.9	135.0 26.0	136.2 25.4	142.B 22.7	142.1 22.6
Farm value-retail cost (%)	20.0	19.3	22.2	22.3	203	24.0	20.0	2017		
		Annual		1993			1	1994		
	1991	1992	1993	Sept	Apr	May	June	July	Aug	Sept
Beef, Choice	288.3	284.6	293.4	288.4	287.1	288.1	283.3	280.1	278.4	280.0
Retail price 2/ (cts./lb.) Wholesale value 3/ (cts.)	182.5	179.6	182.5	175.3	176.8	167.6	158.5	160 4	166.6	162.0
Net farm value 4/ (cts)	160.2	161.8	164.1	158.2	160.8	145.8	133.9	137.2	140 8	136.8
Ferm-retail spread (cts.)	128.1	122.8	129.3	132.2	128.3	142 3	149.4	142.9	137.6 111.6	143.2 118.0
Wholesale-retail 5/ (cls.)	105.8	105.0	110.9	112.1 20.1	110.3 16.0	120.5 21.8	124.8 24.6	119.7 23.2	25.8	25.2
Farm-wholesale 6/ (cts.)	<b>22</b> .3 56	17.8 57	18.4 56	54	56	51	47	49	51	49
Farm value-retail price (%) Pork	30	01	-	• •	-					
Retail price 2/ (cts./lb.)	211.9	198.0	197.6	201.6	198.7	198.8	199.0	200 5	199.1	197.3 95.5
Wholesale value 3/ (cts.)	108.9	98.9	102.8	105.5	103.3	102.2 67.4	99.1 67.8	99.9	100.5 66.6	55.9
Net farm value 4/ (cte.)	78.4	67.8 130.2	72.5 125.1	77.0 124. <del>6</del>	67.6 131.1	131.4	131.2	133.0	132.5	141.4
Farm-retail spread (cts.) Wholesale-retail 5/ (cts.)	133.5 103.0	99.1	94.8	96.1	95.4	96.6	99.9	100.6	98.6	101.8
Farm-wholesale 6/ (c1s.)	30.5	31.1	30.3	28.5	35.7	34.8	31,3	32.4	33 9	39.6
Farm value-retail price (%)	37	34	37	38	34	34	34	34	33	28

1/ Retail costs are based on CPI-U of retail prices for domestically produced farm foods, published monthly by BLS. The farm value is the payment for the quantity of farm equivalent to the retail unit, less allowance for byproduct. Farm values are based on prices at first point of sale & may include marketing charges such as grading & packing for some commodities. The farm-retail spread, the difference between the retail price & the farm value, represents charges for assembling, processing, transporting, distributing. 2/ Weighted average price of retail cuts from pork & choice yield grade 3 beef. Prices from BLS. 3/ Value of wholesale (boxed beef) & wholesale cuts (pork) equivalent to 1 lb, of retail cuts adjusted for transportation costs & byproduct values. 4/ Market value to producer for live animal equivalent to 1 lb. of retail cuts, minus value of byproducts. 5/ Charges for retailing & other marketing services such as wholesaling, & In-city transportation. 6/ Charges for livestock marketing, processing, & transportation.

information contacts. Denis Dunham (202) 219-0867, Larry Duewer (202) 219-1269.

Table 9.—Price Indexes of Food Marketing Costs

		Annual			1993			1994	
	1991	1992	1993	11,	III	IV	I	11	III P
				1	1967 <u>=</u> 100°				
Labor-hourly earnings									
& benefits	409.7	418.8	431.9	432.6	432.2	435.7	438.4	440.4	439.4
Processing	420.4	438.7	448.9	450.1	450.1	452.1	455.5	458.7	458.0
Wholesaling	443.8	458.6	475.2	475.7	476.1	479.3	484.1	486.7	487.8
Retailing	383.9	383.4	395.7	396.1	395 0	400.2	401.2	401.7	399.3
Packaging & containers	371.2	370.1	371.1	369 3	368.4	376.1	377.1	378.6	385.5
Paperboard boxes & containers	320.3	324.8	322.9	323.5	322.4	321.4	324.4	328.2	339.5
Metal cans	470.5	476.1	487.7	478.2	477.7	510.9	520.3	518.6	518.6
Paper bage & related products	410.9	387.6	387.3	390.8	385.1	381.0	379.7	385.8	395 9
Plastic films & bottles	310.7	309.9	307.9	305.2	304.9	310.3	308.3	306.0	310 2
Glass containers	448.0	444.4	446.8	444 8	450.3	449.1	449.0	452.3	454.5
Metal foil	251.6	241.0	238.8	238.5	238.5	238 9	236.1	235.1	240.5
Transportation services	422.6	428.1	425.9	428.0	428.2	428.0	430.0	434.4	438.6
Advertising	460.1	484.0	507.6	505.8	510.1	514.4	524.8	527.8	531.7
Fuel & power	855.7	654,6	671.7	676.2	676.9	672.3	657.1	654.6	671.0
Electric	508.3	514.0	522.3	520.9	549.4	513.0	508.5	515.0	<b>640</b> .5
Petroleum	649.8	639.9	638.9	884.0	609.5	636.3	585.4	581.1	608.6
Natural gas	1,085.0	1.081.1	1,132.9	1,119.5	1,139.0	1,164.7	1,185.7	1,157.8	1,131.0
Communications, water & sewage	261.7	266.9	270.0	268.4	2703	272.2	275.0	276.6	277.9
Rent	282.7	278.3	273.1,	274.6	272.3	27115	272,6	273.9	273.9
Maintenance & repair	442.7	454.8	485.2	466.2	467.4	484.5	467.3	472.0	474.3
Business services	425.4	441.9	459.9	457.9	463.1	466.7	468.9	474.1	475.5
Supplies	319.3	318.1	321.3	321.9	321.6	322.1	319.9	322.9	326.8
Property taxes & insurance	480.5	496.7.	512.9	510.9	514.8	518.4	522.8	528.7	532.0
Interest, short-term	114.5	74.4	64.7	63.7·	64.8	65.9	71.7	92.5	102.0
Total marketing cost index	409.3	415.8	425.2	425.3	425.6	428.5	430.7	433.2	435.7

<sup>\*</sup> Indexes measure changes in employee earnings & benefits & in prices of supplies & services used in processing, wholesaling, & retailing U.S. farm foods purchased for at-home consumption. P = preliminary.

Information contact: Denis Dunham (202) 219-0867.

#### **Livestock & Products**

Table 10.—U.S. Meat Supply & Use

		,					Cons	umption	Primary
	Beg. stocks	Produc- tion 1/	Imports	Total supply	Exports	Ending stocks	Total	Per capita 2/	market price 3/
			Mill	lion pounds 4/				Pounds	
Beef 1992 1993 1994 F 1995 F	419 360 529 525	23,086 23,049 24,220 24,582	2,440 2,401 2,400 2,485	25,945 25,810 27,149 27,592	1,324 1,275 1,510 1,590	380 529 525 450	24,261 24,008 25,114 25,552	66.5 65.1 67.4 67.9	75.36 76.36 68.94 65–71
Pork 1992 1993 1994 F 1995 F	388 385 359 385	17.234 17,068 17,480 18,408	645 740 795 775	18,287 18,213 18,634 19,588	407 435 450 480	385 359 385 375	17,475 17,419 17,799 18,713	53.1 52.3 52.9 55.1	43.03 46 10 41.03 37-40
Veal 5/ 1992 1993 1994 F 1995 F	7 5 4 5	310 285 294 290	0	317 290 298 295	0 0 0	5 4 5 5	312 286 293 290	1,0 0,9 0,9 0,9	89.38 95.92 88.53 82-86
Lamb & mutton. 1992 1993 1994 F 1995 F	6 8 8	348 337 323 308	50 53 53 60	404 398 384 377	8 8	6 8 9	388 381 366 360	1.4 1.3 1 2 1.2	81,00 65,85 66,09 60-66
Total red meal 1992 1993 1994 F 1995 F	820 758 900 864	40,978 40,759 42,317 <b>43</b> ,588	3,135 3,194 3,248 3,320	44,933 44,711 48,465 47,832	1;739 1,718 1,969 2,078	758 900 924 839	42,436 42,092 43,572 44,915	121.9 119.6 122.5 125.2	
Broilers 1992 1993 1994 F 1995 F	300 368 358 420	20,904 22,015 23,519 24,544	. 0 0 0	21,204 22,383 23,877 24,964	1,489 1,966 2,690 2,790	368 358 420 <b>390</b>	19.347 20,059 20,786 21,784	66.8 68.3 70.0 72.7	52.8 55.2 56.3 52-58
Mature chicken 1992 1993 1994 F 1995 F	10 10 8 10	520 515 512 522	10 0 10	530 525 51 <b>9</b> 532	41 56 80 82	10 8 10 6	479 481 429 444	1.9 1.6 1.0 1.7	
Turkeys 1992 1993 1994 F 1995 F	284 272 249 245	4,777 4,798 4,958 5,081	0 0 0	5,041 5,0 <del>69</del> 5,207 5,326	171 212 280 305	272 249 245 265	4,599 4,608 4,682 4,756	16.0 17.8 17.9 18.1	60.2 62.6 65.0 59–63
Total poultry 1992 1993 1994 F 1995 F	575 650 <b>61</b> 5 <b>67</b> 5	26,201 27,328 28,988 30,147	0 0 0	28,775 27,977 29,603 30,822	1.701 2,234 3,050 3,177	650 615 675 661	24,425 25,128 25,878 26,984	86.4 67.9 89.6 92.4	Ξ
Red meat & poultry 1992 1993 1994 F 1995 F	1,395 1,408 1,515 1,599	67,179 68,067 71,305 73,735	3,135 3,194 3,248 3,320	71.708 72,688 76,068 78,654	3,440 3,953 5,019 5,255	1,408 1,515 1,599 1,500	66,861 67,221 69,450 71,899	208.4 207.6 212.1 217.6	=

<sup>1/</sup> Total including farm production for red meats & federally inspected plus nonfederally inspected for poultry. 2/ Retail weight basis. (The beef carcass—to-retail conversion factor was 70.5). 3/ Dollars per cwt for red meat; cents per pound for poultry. Beef: Medium # 1, Nebraska Direct 1,100–1,300 fb.; pork: barrows & gifts, lows, Southern Minnesots; veal; farm price of calves; lamb & mutton; Choice staughter lambs, San Angelo; broilers; wholesale 12-city average; turkeys; wholesale NY 8-16 lb. young itens. 4/ Carcass weight for red meats & certified ready-to-cook for poultry. 5/ Beginning in 1989, veal trade is no longer reported separately. F = forecast. — = not evailable.

Information contacts: Polly Cochran or Maxine Davis (202) 219-0998.

Table 11.—U.S. Egg Supply & Use\_

		_				Llabab		Consur	nption	
	Beg. stocks	Pro- duc- tion	lm- ports	Total supply	Ex- ports	Hatch- ing use	Ending stocks	Total	Per capita	Wholesale price*
			М	illion dozen	<del></del>				No.	Çts./doz.
1988 1989 1990 1991 1992 1 <b>993</b> 1994 P 1995 F	14.4 15.2 10.7 11.6 13.0 13.5 10.7 13.0	5,784 2 5,598.2 5,665.6 5,779.3 5,864 8 5,960.2 6,115.8 6,165.0	5.3 25.2 9.1 2.3 4.3 4.7 4.2 4.3	5,803.9 5,638.5 5,685.3 5,793.3 5,902.1 5,978.3 6,130.7 6,182.3	141.8 91.6 100.8 154.5 157.0 158.9 185.7 170.0	605.9 643.9 678.5 708.6 732.0 769.3 804.7 835.0	15.2 10.7 11.6 13.0 13.5 10.7 13.0 12.0	5,041.0 4,892.4 4,894.4 4,917.2 4,999.6 5,039.4 5,127.3 5,165.3	246.9 237.3 235.0 233.5 234.8 234.2 235.9 235.3	62.1 81.9 82.2 77.5 65.4 72.5 68-69 64-69

<sup>\*</sup> Cartoned grade A large eggs. New York. F = forecast. P = preliminary.

Information contact: Maxine Davis (202) 501-6777.

Table 12:—U.S. Milk Supply & Use 1/\_

			Comr	mercial		T-4-1		Comm	ercial	All	ccc	net removals
	Produc-	Farm	Farm market- inge	Beg. stock	lm+ porte	Total commer- cial supply	ODC net ren mayana	Ending wtocks	Disap- pear- ance	milk price 1/	Skim solids basis	Total solids basis 2/
	4				Billion pour	nde (milkfat bar	de)		-	\$/cwt	Biltion	pounds
1986 1987 1988 1989 1990 1991 1992 1993 1994 F	143 1 142.7 145.2 144.3 148.3 148.5 151.0 153.4	2.4 2.3 2.2 2.1 2.0 2.0 1.9 1.9	140.7 140.6 142.9 142.2 146.3 140.8 149.7 149.0 161.5	4.5 4.1 4.8 4.3 4.1 5.1 4.6 4.7 4.8	2.7 2.5 2.4 2.7 2.6 2.5 2.8 2.9	147.9 147.1 149.9 149.0 153.1 156.7 156.5 159.0	10.8 6 8 9.1 9.4 9.0 10.4 10.0 6.7 4.1	4.1 4.8 4.3 4.1 6.1 4.7 4.6 4.3	133.0 135.7 136.5 135.4 138.0 139.4 142.1 145.2 150.0	12.61 12.54 12.26 13.50 13.68 12.24 13.09 12.80 13.15	14.3 9.3 5.5 0.4 1.8 2.0 4.2 4.0	12.9 8.3 8.9 4.0 4.5 5.4 5.2 4.0

<sup>1/</sup> Delivered to plante & deglers: does not reflect deductions. 2/ Arbitrarily weighted average of milkfat besis (40 percent) & skim solids basis (60 percent). F = forecast.

Information contact: Jim Miller (202) 219-0770.

Table 13.—Poultry & Eggs\_\_\_\_\_\_

		Annual		1993				1994		
	1991	1992	1993	Aug	Mar	Apr	May	Juna	July	Aug
rollers										
Federally inspected slaughter. certified (mli, lb.)	19,727.7	21,052.4	22,178.1	1,905.3	2,029.1	1.923 2	1,986 7	2,073.1	1.882 0	2.210.0
Wholessie price.	52.0	52.0	56 2	57 B	57.5	57.8	61.4	60.7	57.3	54.7
12-city (cts./lb )	208	208	209	202	221	221	225	222	211	213
Price of grower feed (\$/ton)	3.0	3.1	3 3	3.6	3.2	3 2	3.3	3 4	3.6	3 3
Broiter-feed price ratio 1/ Stocks beginning of period (mll. lb.)	241.0	300.4	367 9	372.8	405.9	373.2	403.8	414.6	400.0	405.3
Broiler-type chicks hatched (mil.) 2/	6,616 5	6,892 8	7.218 3	012 2	643.0	629.2	661.0	646.0	650.1	658 1
urkeys										
Federally inspected staughter. certified (mit. lb.)	4,651.9	4,828 9	4.847.7	426.0	400.9	380 6	415.0	457.9	405.6	483.6
Wholesale price, Eastern U.S.,			80.0	63 4	61.0	81,6	63.1	84.0	65.3	66.4
8-18 lb. young hens (cte./lb.)	61.3	60.2	62.6 248	248	258	261	255	258	258	261
Price of turkey grower feed (\$/ton)	231	242 3.1	3.1	3 2	3.0	3.0	3 1	3.1	3.2	3.2
Turkey-feed price ratio 1/	3.3 306.4	284.1	271.7	625.3	304.8	348.5	399.1	463.7	545.3	598 2
Stocke beginning of Period (mil. lb.)	308.1	307.8	306.9	26 0	28 4	26.1	29.5	28.6	28 2	26 4
Poults placed in U.S. (mil.)	306.1	307.9	300.0	200						
iggs ( )	00.000	70.010	71,622	6,015	6 279	6,035	6,158	5.982	6.188	6,262
Farm production (mil.)	<b>69</b> .352 275	70,618 278	283	282	289	289	288	287	287	290
Average number of layers (mll.)	215	2/8	263	202	200	200				
Rate of tay (eggs per layer on farms)	252.4	253.9	252.6	21.3	21.7	20.0	21.4	20.8	21.5	21.6
Cartoned price. New York, grade A	77.6		72.5	72.8	74.4	65.0	61.9	62 9	56.2	68 0
large (cts./doz.) 3/	77.5	65.4 199	202	200	220	216	216	216	204	207
Price of laying feed (\$/ton)	192 6.8	5.7	8.2	6.1	6.0	5.7	5.4	5.4	5.6	5.8
Egg-leed price ratio 1/	0.8	5.7	0,2	ω, ι	0.0	9.1	-			
Stocks, first of month	0.45	0.63	0.46	0 18	0.24	0 27	0.24	0.24	0.24	0.42
Shell (mil. doz.) Frozen (mil. doz.)	11.2	12.3	13.0	13.4	12.0	11.9	12.4	11.5	11.7	14.4
Replacement chicks hatched (mil.)	420	38-8	406	31.5	33.3	35.7	35.2	31.9	30.3	31.5

<sup>1/</sup> Pounds of feed equal in value to 1 dozen eggs or 1 lb. of broller or turkey liveweight. 2/ Piecement of broller chicks is currently reported for 15 States only; henceforth, hatch of broller-type Chicks will be used as a substitute. 3/ Price of cartoned eggs to volume buyers for delivery to retailers.

Information contact: Mexine Davis (202) 501-8777.

Table 14.—Dairy\_

		Annual		1993				1994		
	1991	1992	1993	Aug	Mar	Apr	May	June	July	Aug
Milk prices, Minnesota-Wisconsin, 3.5% fat (\$/cwt) 1/	11.05	11.88	11.80	11.17	12.77	12.99	11,51	11.25	11.41	11.73
Wholesale prices Butter, greds A Chi. (cts./lb.)	99.3	82.5	74.4	74.8	65.5	65 5	64.5	85.1	66.9	71.5
Am. cheese, Wie. assembly pt. (cte./ib.) Nonfat dry milk (cte./ib.) 2/	124.4 94.0	131.9 107.1	131.5 112.0	124.8 109.3	140.0 110.5	143.3 110.8	125.7 108.5	120 2 106.1	129 1 105.6	132.2 108.5
USDA net removale 3/ Total milk equiv. (mil. lb.) 4/ Butter (mil. lb.) Am. cheese (mll. lb.) Nonfat dry milk (mil. lb.)	10,428.0 442.9 78.9 289.5	9,936.4 439.5 14.4 136.7	6.653 8 288 8 8 3 304.3	-108.0 -5.9 0.4 20.8	262.3 11.4 0.1 14.3	360.9 15.5 0.1 37.7	1.039.0 48.7 0.1 18.3	455.4 19.7 0.2 27.1	97.7 3.2 0.2 29 0	-182.1 -9.8 0.2 28.4
Milk Milk prod. 21 States (mil. lb.) Milk per cow (lb.) Number of milk cows (1,000) U.S. milk production (mil. lb.)	125.871 14,977 8,391 148.477	128.223 15.544 8.249 151,647	127.383 15,880 8,124 150.954	10,573 1,306 8,098 6/ 12,492	11,079 1,384 8,005 6/ 13,249	11,038 1,377 8,014 6/ 13,175	11452 1,428 8,021 6/ 13.870	10.998 1.368 8,038 6/ 13,128	10,996 1,369 8,030 6/ 13,074	10.830 1.348 8.034 6/ 12.877
Stock, beginning Total (mil. lb.) Commercial (mil. lb.) Government (mil. lb.) Imports, total (mil. lb.) Commercial disappearanca	13.359 5,146 8,213 2,625	15.841 4,481 11,379 2,524	14,215 4,888 9,526 2,807	17,251 5,423 11,828 190	9,894 4.776 5,118 259	10,081 4,776 5,305 255	10,581 5,179 5,401 191	11.258 5.502 5.758 275	11,180 5 413 5,786 227	10,367 5,255 5,113 255
(mit. tb.)	139,343	142.081	145,348	12,775	13.085	12.510	12.338	12.833	13,228	_
Butter Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	1,335.8 416.1 903.5	1.365.2 539.4 944.2	1.315.2 447.7 1,040.8	80.7 516.4 88.0	117.8 243.2 107.7	119.3 253.5 92.8	118.8- 265.7 72.2	102.4 281.4 89.8	88.2 275.1 85.7	88.7 245.9
American cheese Production (mil. lb.) Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	2.768.9 347.4 2.758.7	2,936.6 318.7 2,902.7	2.957 3 348.7 2.945.5	235.0 408.9 247.2	249.8 361.7 282.8	254.3 350.5 248.1	284.0 357.4 238.4	266 9 383.5 266.0	254.0 386.9 267.6	241.8 375 4
Other cheese Production (mit. lb.) Stocks, beginning (mit. lb.) Commercial disappearance (mit. lb.)	3.285.9 110.8 3,575.2	3.551.7 97.5 3,795.4	3,570.9 120.9 3.884 3	290.7 126.0 314.3	335 0 113.8 353.7	299.0 123.2 320.6	323.5 130.8 343.3	296.5 133.1 318.7	295.8 134.6 327.6	311.0 131.1
Nonfat dry milk Production (mil. lb.) Stocks, beginning (mit. lb.). Commercial disappearance (mil. lb.) Frozen dessert	877.5 181.9 562.7	872.1 214.8 720.5	948.1 81.2 642.3	65.6 130.4 42.2	102.5 80 9 100.1	123.2 67.4 62.8	132 3 89.8 76 7	115.8 124.9 68.6	97.8 149.0 67.9	86.5 159 B
Production (mil. gal.) 5/	1.203 1	1,195.8	1,198.3	118.5	111,2	110.6	112.6	123.6	120.5	118.8
		Annual				1993	_		1994	
	1991	1992	1993	L	- 11	III	IV	1	II	III
Milk production (mil lb.) Milk per cow (lb.) No. of milk cows (1,000) Milk-feed price ratio Relums over concentrate coste (\$/cwt milk)	148.477 14,860 9,992 1.58 8.95	151.847 15,419 9,835 1.69 9.95	150.954 15.554 9,705 1.64 9.54	37.608 3.848 9,773 1.61 9.05	39.411 4,052 9.727 1 57 9.55	37,364 3,862 9,675 1,62 9,35	38,571 3,792 9,644 1,66 9,95	37,692 3,921 9,612 1,65 10,10	39,973 4,146 9,641 1,80 9,60	38,378 3,975 9,656 1,57 9,15

<sup>1/</sup> Manufacturing grade milk. 2/ Prices paid t.o.b. Central States production area. 3/ Includes products exported through the Dairy Export Incentive Program (DEIP). 4/ Milk equivalent, lat basis. 5/ Hard ice cream, ice milk, & hard sherbet. 6/ Estimated. — • not available.

Information contact. Laverne T. Williams (202) 219-1268.

Table 15.—Wool \_

		Annuat				1993			1994	
	1991	1992	1993	I	\$I	IH	IV	1	П	_tiř
U.S. wool price. (cts./lb.) 1/	199	204	137	146	134	136	132	153	219	238
Imported wool price, (cts./lb.) 2/	187	210	142	150	137	128	1 50	171	192	200
U.S. mill consumption, scoured										
Apparel wool (1,000 lb.)	137,187	136,143	139,941	35,549	35,910	35,502	34,419	36,452	35,639	
Carpet wool (1,000 lb.)	14.352	14,695	15,665	4,513	4.343	2.650	3,925	4,380	3.414	_

<sup>1/</sup> Wool price delivered at U.S. mills, clean basis, Graded Territory 64's (20.60-22.04 microns) staple 2-3/4" & up. 2/ Wool price, Charleston, SC warehouse, clean basis, Australian 60/82's, type 64A (24 micron). Duty since 1982 has been 10,0 cents. — = not available.

Information contact: John Lawler (202) 501-8525.

Table 16.—Meat Animals

1981   1992   1993   Aug   Mar   Apr   May   June   July			Annual		1993			19	94		
Number on feed (1,000 head) 11		1991	1992	1993	Aug	Mar	Apr	May	June	July	Aug
Remort on seed (1,000 head)   18,704   20,466   20,383   1,865   1,625   1,406   1,425   1,200   1,223   1,100   1,233   1,100   1,203	attle on feed (7 States)		0.007	0.020	7 699	8.011	0.007	2 501	8 215	7.549	7 370
Marsteinger (1,000 head)   18,071   18,023   18,086   1,687   1,883   12810   1,896   1,785   1,895   1,895   1,895   1,895   1,190   1,995	Number on feed (1,000 head) 1/									1,528	1,794
Cher disappearance (1,000 head)  1,233 1,196 1,196 77 86 82 92 101 05 05 05 05 05 05 05 05 05 05 05 05 05	Marketings (1.000 head)	19.071		18,988	1,687	1,583	1:610	1,899	1,765		1.732
Staughter Carbie   74.21   75.35   76.36   74.56   74.85   75.16   68.09   63.13   63.86   6	Other disappearance (1,000 head)			1,199	17	86	82	92	101	55	58
Christe speers, 1,100-1_300 lb.  74_21											
Texas   74,21   76,25   79,80   75,80   75,81   77,80   77,81   77,80   78,90   78,9	Choice steers, 1,100–1,300 lb.										
Second Column   Second Colum	Texas		75.35	78 38					63.13		68.04
March   Marc							47.31				43.74
Medium no. 1, Oklahoma City		00.00	44.04	77.02	75.01						
## 80.45   \$8.45   \$8.50   \$8.31   \$8.14   \$70.08   \$75.63   \$78.00   \$75.63   \$75.63   \$78.00   \$75.63   \$75.63   \$78.00   \$75.63   \$75.6	Medium no. 1, Oktahoma City					04.44		05.15	** 47	92.24	82.95
Slaughter hoge   Barrows & Office 230-250 lb.	600-650 lb.		86.47 81.75		92.52 88.50					78.00	77.45
Barrows & gifts, 230–250 fb. lows, 5 Minn.  8 markets  48.88 42.31 45.38 48.21 43.97 42.48 42.27 43.91 42.93 20.00 48.88 42.31 45.38 48.21 43.97 42.48 42.24 42.89 42.94 42.99 42.94 42.94 42.94 42.99 42.94 42.94 42.94 42.94 42.99 42.94 42.94 42.94 42.94 42.94 42.94 42.94 42.99 42.94											
Lower S. Minn.	Barrows & gilts, 230-250 lb.			40.40	40.00	44 20	40.02	40.07	42.01	42.93	42.72
e markets	lowe, & Minn.										42.33
Saughter sheep & lambe   Lambe, Choke, San Angelo   31.88   35.24   37.46   35.39   39.70   39.45   39.00   43.00   39.50   39.50   39.86   39.00   43.00   39.50   39.50   39.86   39.00   43.00   39.50   39.50   39.86   39.00   43.00   39.50   39.50   39.86   39.00   43.00   39.50   39.50   39.86   39.00   43.00   39.50   39.50   39.86   39.00   43.00   39.50   39.50   39.86   39.00   43.00   39.50   39.50   39.86   39.00   43.00   39.50   39.50   39.86   39.00   43.00   39.50   39.50   39.86   39.00   43.00   39.50   39.50   39.60	5 markets	40.00	72 31	70.00	-						
Lambs, Choice, San Angelo	8. Mo. 40-50 lb. (per head)	44.52	31.71	40.00	36.13	47.33	42.00	35 72	28 74	26 83	29.7
Lambe, Cross, San Angelo Sal, Sal, Sal, Sal, Sal, Sal, Sal, Sal,	Slaughter sheep & lambe	53.21	g1 00	65 85	58.97	61 83	51.25	60.94		75 33	79 50
Feeder lambs (Choice, San Angelo) 53.29 62.21 69.32 63.17 69.20 61.95 64.70 65.82 70.75 (Choice, San Angelo) 53.29 62.21 69.32 63.17 69.20 61.95 64.70 65.82 70.75 (Choice, 70.9-85) (h) 17.24 118.02 117.71 115.27 113.83 113.89 107.79 102.10 103.78 (Select, 70.9-85) (h) 112.73 111.60 113.53 111.64 111.21 111.90 103.44 97.49 98.63 (Select, 70.9-85) (h) 12.73 111.60 113.53 111.64 111.21 111.90 103.44 97.49 98.63 99.42 93.95 95.43 98.50 93.89 91.52 90.51 64.20 85.90 Pork cutrout, No. 2 67.02 56.37 62.19 65.56 60.90 50.81 58.45 57.53 57.74 Pork loine, 12-14 lb. 108.39 101.41 107.47 118.73 100.45 101.89 103.99 103.84 109.79 Pork loine, 12-14 lb. 47.79 30.39 41.62 46.88 49.88 45.44 41.40 40.39 38.84 Harra, skinned, 20-28 lb. 73.55 80.67 80.90 66.01 64.27 57.75 54.44 55.61 54.50 (Chorachea) (1.000 head) 2/ 2.885 33.874 17.222 1.565 1.436 1.448 1.577 1.705 (26.89 17.138 17.138 17.222 1.565 1.436 1.448 1.577 1.705 (26.89 1.6728 17.138 17.222 1.565 1.436 1.448 1.577 1.705 1.586 (1.6728 17.138 1.371 1.7825 1.438 1.434 1.5877 1.705 1.586 (1.6728 17.138 1.371 1.7825 1.438 1.434 1.5877 1.705 1.586 (1.6728 17.138 1.371 1.7825 1.5450 1.436 1.448 1.577 1.705 1.586 (1.6728 17.138 1.371 1.7822 1.565 1.436 1.448 1.577 1.705 1.586 (1.6728 17.138 1.371 1.7822 1.565 1.436 1.448 1.577 1.705 1.586 (1.6728 17.138 1.371 1.7822 1.565 1.436 1.448 1.577 1.705 1.586 (1.6728 17.138 1.371 1.7822 1.565 1.436 1.448 1.577 1.705 1.586 (1.6728 17.138 1.371 1.7822 1.565 1.436 1.448 1.577 1.705 1.586 (1.6728 17.138 1.371 1.7822 1.565 1.436 1.448 1.577 1.705 1.586 (1.6728 17.138 1.371 1.7822 1.565 1.436 1.448 1.577 1.705 1.586 (1.6728 17.138 1.371 1.7822 1.565 1.436 1.448 1.577 1.705 1.586 1.586 (1.6728 17.138 1.371 1.7822 1.565 1.436 1.448 1.577 1.705 1.586	Fwar, Good, San Angelo							39 00	43.00	39.50	39.00
Choice, Sall Aligner  Boxed beaf cut-out value  Choice, 700-850 lb. 112.73 111.60 113.53 111.84 111.21 111.90 103.44 67.49 98.83  Select, 700-850 lb. 112.73 111.60 113.53 111.84 111.21 111.90 103.44 67.49 98.83  Canner & Cutter cow beaf 99.42 93.85 95.43 99.50 93.99 91.52 90.51 44.20 85.90  Pork cuttout, No. 2 67.02 58.37 62.19 65.56 60.99 58.81 58.45 57.53 57.74  Pork loins, 14-18 lb. 108.39 101.41 107.47 116.73 100.45 101.89 103.99 103.84 109.79  Pork belies, 12-14 lb. 47.79 30.39 41.62 46.88 49.88 48.84 41.40 40.39 38.66  Harre, skinned, 20-28 lb. 73.65 96.67 90.90 90.01 64.27 57.78 54.44 55.61 54.59  All trash beef retail price  271.05 268.79 273.43 273.89 271.80 287.25 287.60 283.42 283.92  commercial slaughtar (1.000 head) 2/  Cattle  16.728 17.138 17.222 1.555 1.436 1.448 1.577 1.705 1.586  Cover 5.623 5.846 6.086 495 495 537 48.8 443 434 410  Cover 5.623 5.846 6.086 495 537 48.8 443 434 410  Cover 5.623 5.846 6.086 495 537 48.8 443 434 410  Edula & targe 1.436 1.371 1.196 98 114 94 93 101 95  Cattles 1.436 1.371 1.196 98 114 94 93 101 95  Cattles 2.433 5.30 416 433 592 318  Formarcial production (mil. ib.)  Beet 2.800 22.888 22.887 2.085 2.001 1.902 1.885 2.167 2.027  Veral Barrows & glita 33.088 80.964 88.387 7.752 7.7581 7.282 7.293  Fork  Annual 1993 11 11 11 1.294  Fork  Annual 1993 11 11 1.294  Fork  Annual 1993 11 11 1.294  Fork  Annual 1993 11 1.100 10.824 9.479  Fork on feed (1.000 head) 1/1 10.827 10.135 10.884 10.452 9.473 7.046 5.347 4.670 9.194  Fork on feed (1.000 head) 1/2 22.830 22.244 24.00 270 315 275 329  Cover 6 1.000 head) 1/2 22.830 22.441 24.022 5.314 6.341 7.045 5.347 4.670 9.194  Fork on feed (1.000 head) 1/2 10.827 10.135 10.884 10.452 9.473 7.046 5.347 4.670 9.194  Fork on feed (1.000 head) 1/2 10.827 10.135 10.884 10.452 9.473 7.046 5.347 4.670 9.194  Fork on feed (1.000 head) 1/2 10.827 10.135 10.884 10.452 9.473 7.046 5.347 4.670 9.194  Fork on feed (1.000 head) 1/2 10.827 10.135 10.884 10.452 9.473 7.046 5.347 4.670 9.194  Fork on feed (1.000 head) 1/2 10.827 10.135 10.884	-eader lamba				44.47	80.00	61.05	84.70	85.93	70.75	70.0
Boxed beef cut-out value	Choice, San Angelo	53.29	62 21	69.32	63.17	68 20	01.93	04 /0	39.GF	70.70	10.0
Choice, 700—850 lb. 117.24 118.02 117.71 118.27 113.83 113.89 107.79 107.85 185.50 175.50 117.71 118.27 113.83 113.89 107.79 107.85 185.50 118.85 118.84 119.85 113.83 118.84 119.85 113.85 118	Yholesale meet Pfices, Midwest Bored beef cut–out value										400.0
Select   100-850   100-8	Choice, 700-850 lb.						113.00	107 79			108.0
## 19702 \$88.37 #2.19 #2.56 #0.06 \$9.81 \$8.45 \$7.53 \$7.74   Pork circuit, No. 2   108.39 101.41 107.47 118.73 100.45 101.89 103.99 103.94 109.79   Pork lotins, 14-18 lb.					98.50						82 3
Pork loines, 14-18 lb.				82 19	65.58	60.96	59.81	58.45	57 53		59.3
Fork polities 1,24 in 1975   1988   1	Pork loine, 14-18 lb.	108.39								38.84	112.8 39.6
Cattle 32.889 32.874 33.324 2.842 2.880 2.712 2.835 3.039 2.821											54 9
Cattle 32,889 32,874 33,324 2,942 2,860 2,712 2,835 3,039 2,821 17,138 17,222 1,585 1,436 1,448 1,577 1,705 1,586 1,436 1,448 1,577 1,705 1,586 1,436 1,448 1,577 1,705 1,586 1,436 1,448 1,577 1,705 1,586 1,436 1,436 1,371 1,436 1,391 1,432 1,391 1,431 1,436 1,391 1,431	All frauts beef retail Price	271.05	266.79	273 43	273.89	271.80	267.25	267.60	263.42	263 92	264.7
Steers   16,728   17,138   17,222   1,565   1,438   1,448   1,577   1,705   1,586   Helifers   9,725   9,238   9,358   820   537   458   443   434   410   Cower   5,623   5,846   6,086   495   537   458   443   434   410   Edits & stage   614   653   659   62   67   64   65   55   50   Edits & stage   1,438   1,371   1,195   98   114   94   93   101   95   Sheep & tambe   5,721   5,496   5,182   433   530   419   435   392   318   Hogs   88,199   94,889   93,088   7,552   8,330   7,782   7,561   7,628   7,099   Barrows & gilta   83,668   88,367   7,231   7,907   7,416   7,193   7,202   6,869    Commercial production (mill. lb.) Beet   22,800   22,968   22,942   2,065   2,001   1,902   1,985   2,157   2,027   Early & 200   22,968   22,942   2,065   2,001   1,902   1,985   2,157   2,027   Early & 200   299   267   23   26   22   22   24   21   Early & mutton   358   343   329   27   34   27   28   24   19   Early & Annual   1993   1994    Early & Annual   1993   1,530   1,432   1,397   1,411   1,294    Early & Annual   1993   1,530   1,432   1,397   1,411   1,294    Early & Annual   1993   1,530   1,432   1,397   1,411   1,294    Early & Annual   1,517   1,438   1,484   4,60   270   315   275   329    Early & Annual   1,517   1,438   1,484   4,60   270   315   275   329    Early & Annual   1,517   1,438   1,484   4,60   270   315   275   329    Early & Annual   1,517   1,438   1,484   4,60   270   315   275   329    Early & Annual   1,517   1,438   1,484   4,60   270   315   275   329    Early & Annual   1,517   1,438   1,484   4,60   270   315   275   329    Early & Annual   1,517   1,438   1,484   4,60   270   315   275   329    Early & Annual   1,517   1,438   1,484   4,60   270   315   275   329    Early & Annual   1,517   1,438   1,484   4,60   270   315   275   329    Early & Annual   1,517   1,438   1,484   4,60   270   315   275   329    Early & Annual   1,517   1,438   1,484   4	Commercial slaughter (1,000 head) 2/				2.042	2 980	0.710	2 625	2.020	2 821	3,08
Cows			32,579 17 198							1,580	1.68
Second   S		9,725			820	830	752	780	845	775	82
Solis & stage Catives	Cowe			6.086			458	443 66			41
Sheep & famble   S.721   S.496   -5,182   433   530   418   435   339   318   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   33,188   34,189   34,188   34,189   34,188   34,189   34,188   34,189   34,188   34,189   34,188   34,189   34,188   34,189   34,188   34,189   34,188   34,189   34,188   34,189   34,1								93	101	95	10
Hogs   83,169   84,896   83,093   84,896   84,897   7,231   7,907   7,416   7,193   7,202   6,869				-5,182							40
Commercial production (mil. ib.)   22,800   22,968   22,942   2,065   2,001   1,902   1,985   2,157   2,027	Hogs							7.561 7.103	7.628		8,19 7,74
See   22,800   22,908   22,902   2,005   2,001   3,002   1,005   2,1		83,008	89.904	88.387	7.231	7,007	7,410	7,100	7,202	4,	
Veal   296   299   267   23   26   22   22   24   21		22 800	22 088	22,942	2.085	2.001	1.902		2.157	2.027	2.2
Lamb & mutton   358   343   329   27   34   27   26   28   28   15,948   17,184   17,030   1,389   1,530   1,432   1,397   1,411   1.294		298	299	287	23	26	22	22			
Annual 1993 1994    Tigg1 1992 1993   II   III   IV   II   III   III   IV   III   II	Lamb & mutton										1,49
Tige 1 1992 1993 II III IV III III III IV III III III I	Pork	15,948	17,184	17,030	1,389	1,530	1,432	(,GB)	1,411	1.204	*1
Testis on feed (13 States) Number on feed (1,000 head) Number on feed (1,000 head) Placed on feed (1,000 head) 23.208 24.241 24.022 5.314 6.341 7.046 5.347 4.670 — Marketings (1,000 head) 22.383 22.058 22.316 5.833 5.893 5.278 5.554 5.946 — Other disappearance (1,000 head) 1,517 1,438 1.484 460 270 315 275 329			Annual			1993			1	994	
Cattle on feed (13 States) Number on feed (1,000 head) 1/ 10,827 10,135 10,884 10,452 9,473 9,851 11,106 10,824 9,019 Placed on feed (1,000 head) 23,208 24,241 24,022 5,314 6,341 7,046 5,347 4,670 — Marketings (1,000 head) 22,383 22,056 22,316 5,833 5,893 5,276 5,554 5,946 — Other disappearance (1,000 head) 1,517 1,438 1,484 460 270 315 275 329		F1991		1993		III	IV	- 1	H	III	I'
Number on feed (1,000 head) \( 10.827 \) 10.827 \) 10.827 \) 10.827 \) 10.827 \) 10.827 \) 10.827 \) 10.827 \] 10.82	Cettle no lead (13 States)										
Placed on feed (1,000 head) 23,298 24,241 24,022 5.314 9.341 7.049 5.347 7.049	Number on feed (1,000 head) 1/							11.106		9,019	_
Markenings (1,000 head) 1,517 1,438 1,484 460 270 315 275 329	Placed on feed (1,000 head)		24.241		5.314	5.341		5,554			dar S
Hogs & pips (10 States) 3/	Marketings (1,000 head) Other disappearance (1,000 head)		1,438						329		
Inventory (1,000 heard) 1/ 42,900 45,735 48,240 45,080 48,420 46,920 46,180 45,830 47,965	logs & pigs (10 States) 3/	10.000	46 705	48,240	46.000	48.420	46.920	48,180	45.830	47,965	49,1
Inventory (1,000 head) 1/ 42,900 45,735 45,200 45,400 5,610 5,595 5,815 5,815	Inventory (1.000 head) 1/						5.610		6.595	5.815	5.8
Merket (1,000 head) 1/ 37,843 40,125 40,725 39,610 40,790 41,310 40,585 40,235 42,150	Market (1.000 head) 1/				39.610	40,790	41.310	40.585	40.235	42,150	43.3
Farrowings (1,000 head)  8.516 9.895 9.292 2.521 2.332 2.361 2.288 2.438 Pig crop (1,000 head)  75,330 78,620 75.355 20.485 18.849 19.007 18.522 21.454 20.073		9.516	9.895	9.292	2,521						*2,4

<sup>1/</sup> Beginning of period. 2/ Classes estimated 3/ Quarters are Dec of preceding year-Feb. (1), Mar.-May (II), June-Aug. (III), Sept.-Nov. (IV). \*Intentions.

Information contact: Polly Cochran (202) 219-0767.

## Crops & Products

Table 17.—Supply & Utilization 1,2

		Area					Feed	Other				
	Set eside 3/	Planted	Harves- ted	Yleid	Produc- tion	Total supply	and resid- ual	domes- bc use	Ex- ports	Total use	Ending stocks	Farm price 5/
		Mil. acres		Ви./асте				Mil. bu.				\$/bu.
Vheat 1989/90 1990/91 1991/92 1992/93* 1993/94* 1994/95*	9.6 7.5 15 9 7.3 5.7 4.7	76.6 77 2 69 9 72 3 72 2 70.5	62 2 69 3 57.7 62.4 62.7 61.7	32.7 39.5 34.3 39.4 38.3 37.6	2,037 2,736 1,981 2,459 2,403 2,320	2,761 3,309 2,888 3,001 3,041 2,970	139 491 •248 186 278 225	853 882 887 933 905 982	1,232 1,069 1,282 1,354 1,228 1,250	2.224 2.443 2.416 2.472 2.470 2,457	536 868 472 529 570 513	3.72 2.61 3.00 3.24 3.25 3.25–3.65
		Mil. acres		Lb./acre			1	Mil. cwf (rough	(.vlupe			\$/cwt
Rice 1988/90 1990/91 1991/92 1992/93* 1993/94* 1994/95*	1.2 1.0 0.9 0.4 0.7 0.2	2.73 2.90 2.88 3.18 2.92 3.36	2 69 2 82 2 78 3 13 2 83 3 25	5.749 5.529 5.674 5.730 5.510 5.926	154 5 156.1 157.5 179.7 156.1 192 3	185 6 187.2 187.3 213.2 202.5 226.3	=	6/ 82.0 6/ 91.8 6/ 93.5 6/ 96.7 6/ 97.1 6/ 102.0	77.2 70.9 68.4 77.0 79.4 81.0	159.2 102.7 159.9 173.7 176.4 183.0	28 4 24.8 27.4 39 4 26 0 43 3	7 36 6 68 7 58 5 89 8 8 8 8 5.25-6.75
Corn		Mil. acres		Bul/acre				Mil. bu				\$/bu.
1989/90 1990/91 1991/92 1992/93* 1993/94* 1994/95*	10.8 10.7 7.4 5.3 10.9 2.2	72 2 74.2 78.0 79.3 73.3 78.8	64 7 67.0 68 8 72 2 63.0 71.8	116.3 118.5 108.6 131.4 100.7 133.8	7,525 7,934 7,475 9,482 8,344 9,602	9,458 9,282 9,016 10,589 8,478 10,457	4.389 4.663 4,878 5.301 4.715 5.350	1.356 1.373 1.454 1.512 1.588 1,660	2.368 1.725 1.584 1.663 1.325 1.625	8,113 7,761 7,916 8,476 7,628 6,635	1.344 1.521 1.100 2.113 850 1,822	2 36 2 28 2 37 2.07 2.50 1 90-2 30
P b		Mil. acrea		Bu /acre				Mil. bu.				\$/bu.
Sorghum 1989/90 1990/91 1991/92 1992/93* 1993/94* 1994/95*	3.3 2.5 2.0 2.3 1.5	12.6 10.5 11.1 13.3 10.5 10.2	11.1 9.1 9.9 12.2 9.5 9.3	55.4 63.1 69.3 72.8 59.9 68.9	815 573 585 884 568 640	1.055 793 727 937 743 688	517 410 374 478 488 400	15 8 8 8	303 232 292 277 200 215	835 651 674 762 695 623	220 143 53 175 48 65	2 10 2 12 2.25 1.89 2.31 1.70~2.10
Barley		Mil. acras		Bu./acre				Mil. bu				\$/bu.
1989/90 1990/91 1991/92 1992/93" 1993/94" 1994/95"	2.3 2.9 2.2 2.3 2.5 2.4	9.1 8.2 8.9 7.8 7.8 7.2	8,3 7,5 8,4 7,3 6,8 6,7	48 6 56.1 55.2 62.5 58 9 56 2	404 422 484 458 400 375	614 596 624 598 623 579	193 205 225 195 243 215	175 178 176 172 175 175	84 81 94 80 66	453 461 498 447 484 450	161 135 129 151 139 129	2 42 2.14 2.10 2 04 1 99 1.85-2.15
2-4-		Mil. acres		Bul/acre				Mit. bu.				\$/bu.
Oate 1989/90 1990/@1 1991/@2 1992/93* 1993/94* 1994/85*	0.4 0.2 0.6 0.7 0.8 0.6	12.1 10.4 8.7 8.0 7.9 6.6	5.0 5.9 4.8 4.5 3.8 4.0	54 3 60.1 50.7 65 6 54.4 57.2	374 358 243 295 206 230	538 578 489 477 426 415	268 286 235 234 193 175	135 120 125 125 125 125	1 1 2 6 3	361 407 362 364 321 302	167 171 128 113 106 113	1.49 1.14 1.21 1.32 1.38 1.15–1.35
Saybeans		Mi), acres		Bu./acre				Mil. bu.				\$/bu
1989/90 1990/91 1991/92 1992/93* 1993/94* 1994/95*	0.0 0.0 0.0 0.0 0.0 0.0	60.8 57.8 59.2 59.1 60.1 61.8	59 6 58 6 58 0 58 2 57 3 50 7	32 3 34.1 34 2 37 6 32.6 40.5	1 924 1.925 1,987 2.188 1,869 2,458	2.109 2.166 2.319 2.468 2.167 2.672	7/ 101 7/ 95 7/ 103 7/ 127 7/ 93 7/ 117	1.145 1.187 1.254 1.279 1,272 1,350	623 557 684 770 593 740	1.870 1.839 2.041 2.176 1.958 2.207	239 329 278 292 209 465	5 89 5.74 5 58 5 56 6.40 4 80~5 30
Soybean oll								Mil. lbs.				8/ Cts./lb.
1989/90 1990/91 1991/92 1992/93* 1993/94* 1994/95*	=======================================				13,408 13,408 14,345 13,778 13,865 15,175	14.741 14.730 16.132 16.027 15,485 16.285	diament diamen	12.083 12,164 12,245 13.053 12.075 13.200	1,353 780 1,648 1,419 1,435 1,625	13,436 12,944 13,893 14,472 14,410 14,825	1.305 1.786 2.239 1.555 1.075 1.440	22 30 21,00 19,10 21,40 27,00 21,5-24,0
Soybean meal								1,000 tone				s/ \$/lon
1989/90 1990/91 1991/92 1992/93* 1993/94* 1994/95*	=			=	27.719 28.325 29.831 30.364 30.371 32.075	27,900 28,588 30,183 30,687 30,640 32,350		22.263 22.834 23.008 24.251 25.050 26.150	5.319 5.469 6.945 6.232 5.375 5,900	27,582 28,403 29,953 30,483 30,425 32,050	318 285 230 204 215 300	188 48 181.40 189.20 193.75 193.00 150-16

Table 17.—Supply & Utilization, continued

		Atea					Feed and	Other				
	Set Asid s F 3/	Planted	Harvet- ted	Yield	Produc- tion	Total supply	reaid- ual	lic use	Ex- ports	Total use	Ending Stocks	Farm price 5/
	MII	l. acres		Lb /acre				Mil. bales				Cts./lb.
Cotton 10/ 1989/90 1990/91 1991/92 1992/93" 1993/94" 1994/95"	3.5 2.0 1.2 1.7 1.4 1.7	10.6 12.3 14.1 13.2 13.4 14.1	9.5 11.7 13.0 11.1 12.8 13.4	814 834 852 699 806 690	12.2 15.5 17.6 16.2 16.2 19.3	19.3 18.5 20.0 19.9 20.8 22.8		8.8 8.7 9.6 10.3 10.4 11.0	7.7 7.8 6.7 5.2 7.0 7.0	16.5 16.3 15.5 17.3 18.0	3.0 2.3 3.7 4.7 3.5 4.8	66 20 67.10 58.10 54 90 59.00

<sup>\*\*</sup>Oct. 12, 1994 Supply & Demand Estimales. 1/ Marketing year beginning June 1 for wheat, barley, & cats, August 1 for cotton & rice, September 1 for soybeans, corn, & orghum. October 1 for soymeal & soyoil. 2/ Conversion factors. Hectars (ha.) = 2.471 acres, 1 metric ton = 2204,622 pounds, 36.7437 bushels of wheat or soybeans, 39.3679 bushels of corn or sorghum. 45.9296 bushels of barley, 68.8944 bushels of cats. 22.046 cwt of rice, & 4.59.480—pound bales of cotton. 3/ Includes diversion, acreege reduction, 50–92, & 0–92 programs. 5/92 & 65/92 set-aside includes lidled acreage & acreege planted to minor oilseeds, sessme, and crambe. 4/ Includes imports, 5/ Marketing-year weighted average price received by termers. Does not include an allowance for loans outstanding & Government purchases. 6/ Residual included in domestic use. 7/ Includes amed. 3/ Simple average of crude soybean oil, Decarur. 9/ Simple average of 49 percent. Decarur. 10/ Upland & extra long staple. Stocks astimates based on Cansus Bureau data, resulting in an unaccounted difference between supply & use estimates & changes in ending stocks. 11/ USDA is prohibited from publishing cotton price projections. — = not available or not applicable.

Information contacts: Wheat, rice & feed grains, Jenny Gonzales (202) 501-8552; soybeans, soybean products & cotton, Mae Dean Johnson (202) 501-8522

Table 18.—Cash Prices, Selected U.S. Commodities\_

		Marketin	g year 1/		1993			1994		
	1989/90	1990/91	1991/92	1992/93	Aug	Apr	May	June	July	Aug
Wheat, No. 1 HRW, Kansas City (\$/bu.) 2/	4.22	2 94	3.77	3.87	3 34	3.63	3.85	3 60	3.48	3.70
Wheat, DNS, Minneapolie (\$/bu.) 3/ Rice, S.W. Lat (\$/cwt) 4/	4.16 15.55	3 08 15.25	3.82 16 50	3.91 13.30	4 88 12.05	4.99 22.75	5 05 21,00	4 20 18.50	74.14 16.15	4 00 14.30
Corn. no. 2 yellow, 30 day, Chicago (\$/bu.)	2.54	2.41	2.52	2.22	2 37	2.78	2.75	2.71	2.32	2.24
Sorghum, no. 2 yellow, Kansas City (\$/cwt)	4.21	4.08	4.36	3.74	4.01	4.33	4 38	4.43	3.79	3.73
Barley, feed, Ouluth (\$/bu.) 5/	2 20	2.13	2.17	2.11	1.89	2 08	2.11	2.05	2.02	1.99
Bartey, malting. Minneapolis (\$/bu.)	3.28	2.42	2 38	2.37	2.27	2.73	2 84	2 88	2 57	2.46
U.S. price, SLM, 1-1/16 in_(cts./lb.) 6/	69.8	74.8	56.7	54.1	53 0	76.1	79.3	78.9	71.7	70.3
Northern Europe prices index (cts./lb.) 7/ U.S. M 1-3/32 in. (cts./lb.) 8/	82 3 83.6	82 Q 88 2	62 9 65 3	56.9 62.5	55.5 57.3	83.9 86.8	86,1 90.6	85.1 86.1	81.7 79.9	76.7 77.3
Soybeans, no. 1 yellow, 30 day, Chicago (\$7bu.)	5 8 6	5 76	5. <b>75</b>	5.96	8 68	5.62	6 79	6.79	6.05	5 75
Soybean oil, crude. Decatur (cts./lb.)	22 30	21.00	19.10	21.40	23 33	27 04	27.72	27 51	24 50	24.50
Soybean meal, 48% protein, Decatur (\$/ton) 9/	186.50	181.40	189 20	193.75	219 10	188.90	193.07	195.50	181.10	178.60

<sup>1/</sup> Beginning June 1 for wheat & barley, Aug. 1 for rice & cotton; Sept. 1 for com, sorghum & soybeans; Oct. 1 for soymeal & oil. 2/ Ordinary protein. 3/ 14% protein.
4/ Long grain, milled basts. 5/ Beginning Mar. 1987 reporting point changed from Minneapolis to Duluth. 6/ Average spot market - 7/ Liverpool Cotlook "A" Index, average of five lowest prices of 13 selected growths. 8/ Memphis territory growths. 9/ Note change to 48% protein.

Information contacts: Wheat, rice, & feed grains, Jenny Gonzeles (202) 501-8552; Soybeans, soybean products, & cotton, Mae Dean Johnson (202) 501-8522.

#### Table 19.—Farm Programs, Price Supports, Participation & Payment Rates

				Pay	ment reles				
	Target Price	Basic loan rate	Findley of announce loan rate 1/	d Total deficiency	Paid land diversi	Optional	Effective base acres 2/	Program 3/	Partici- pation rate 4/
	-			\$/bu.			Míl. scret	Percent of base	Percent of base
Wheat 1988/89 1988/90 1990/91 1991/92 1992/93 1993/94 1994/95 1995/96	4 23 4.10 4.00 4.00 4.00 4.00 4.00 4.00	2 76 2.58 2.44 2.52 2.58 2 86 2.72	2 21 2 05 1.95 2.04 2 21 2.45 2.58	0.69 0.32 1.28 *1.35 0.81 **1.03	0.00	60-00-00-00-00-00-00-00-00-00-00-00-00-0	84.8 82.3 80.5 79.2 78.0 78.4 78.2	27.5/0/0 10/0/0 8/ 5/0/0 15/0/0 5/0/0 0/0/0 0/0/0	86 78 83 85 83 86 87
Rice	** *5		7/ 0.70	\$/cwt			4.2	25/0/0	94
1988/89 1989/90 1990/91 5/ 1991/92 1992/93 1993/94 1994/95	11.15 19.80 10.71 19.71 19.71 10.71 10.71	6 83 6.50 6.50 6.50 6.50 6.50 6.50	7/ 6.50 7/ 6.00 7/ 5.40 7/ 5.85 7/ 4.70 7/ 5.75	4.31 3.56 4.16 3.97 4.21 **3.98	600 600 600 600		4.2 4.2 4.2 4.1 4.1 4.2	25/0/0 20/0/0 5/0/0 0/0/0 5/0/0 0/0/0	94 94 95 95 96 97 94
Corn				\$/bu.					
1988/89 1989/90 1990/91 5/ 1991/92 1992/93 1993/94 1994/95	2.93 2.84 2,75 2.75 2.75 2.75 2.75	2.21 2.08 1.98 1.89 2.01 1.99 1.99	1.77 1 65 1.57 1 62 1.72 1.72 1.89	0.30 0.58 0.51 0.41 0.73 **0.28		1.75	82 9 82.7 82.6 82.7 82.1 61.8 81 8	20/0/10 10/0/0 10/0/0 7.5/0/0 5/0/0 10/0/0 7.5/0/0	87 79 78 77 76 61 82
Sorghum				\$/bu.					
1988/89 1989/90 1990/91 5/ 1991/92 1992/93 1993/84 1994/95	2.78 2.70 2.61 2.61 2.61 2.61 2.61	2.10 1.96 1.85 1.80 1.91 1.69 1.89	1.68 1.57 1.49 1.64 1.63 1.63	0.48 0.66 0.56 0.37 0.72 10.25		1,65	16.6 16.2 15.4 13.5 13.6 13.5	2070/10 10/0/0 10/0/0 7.5/0/0 5/0/0 0/0/0	82 71 70 77 79 82 81
Barley 1988/89				\$/bu.					7.0
1988/89 1989/90 1980/91 5/ 1991/92 1992/93 1993/84 1994/95	2.51 2.44 2.36 2.36 2.36 2.36 2.38	1.80 1.68 1.60 1.54 1.64 1.62 1.62	1,44 1,34 1,28 1,32 1,40 1,40 1,54	0 00 0 00 0 .20 0 .82 0 .68 **0 .67 ***0 .51		1.40	12.5 12.3 11.9 11.5 11.1 10.8 10.7	20/0/10 10/0/0 10/0/0 7.5/0/0 5/0/0 0/0/0	79 67 68 76 76 83 84
Cata				\$/bu.					
1988/89 1989/90 1990/91 5/ 1991/92 1992/93 1993/94 1994/95	1.55 1.50 1.45 1.45 1.45 1.45	1.14 1.06 1.01 0.97 1.03 1.02 1.02	0.81 0.85 0.81 0.83 0.88 0.88	0.00 0.00 0.32 0.35 0.17 **0.11	400 etc 400 etc		7.0 7.6 7.5 7.3 7.2 7.1 6.8	5/0/0 6/0/0 6/0/0 0/0/0 0/0/0 0/0/0 0/0/0	30 18 09 38 40 48 41
Soybeans 9/				\$/bu.					
1988/89 1989/90 1990/91 5/ 1991/92 1992/93 1993/94 1994/95		=	4 77 4 53 4 50 5 92 5 02 5 02 4 92						
Upland cotton				Cte./lb.					00
1988/89 1989/80 1980/91 5/ 1991/82 12/ 1992/83 1993/94 1984/95	75 9 73.4 72.9 72.9 72.9 72.9 72.9	51.80 50.00 50.27 50.77 52.35 52.35 50.00	11/ 51.80 11/ 50.00 11/ 50.27 11/ 47.23 11/ 43.80 11/ 49.00	19.4 13.1 7.3 10.1 20.3 **19.4			14.5 14.6 14.4 14.6 14.0 15.1	12 5/0/0 25/0/0 12.5/0/0 5/0/0 10/0/0 7.5/0/0 11/0/0	89 89 86 84 89 91 89

1/ There are no Findley loan rates for rice or cotton. See footnotes 7/ & 11/. 2/ National effective crop acreage base as determined by ASCS. Net of CRP.
3/ Program requirements for participating producers (mandatory earage reduction program/mandatory paid land diversion/optional paid land diversion/. Acres idied must be devoted to a conserving use to receive program benefits. 4/ Percentage of effective base acres enrolled in acreage reduction programs. 5/ Peyments 6 toens were reduced by 1.4 percent in 1990/91 due to Gramm-Rudman-Hollings. Budget Reconciliation Act reductions to deliciency payments rates were also in effect in that year. Data do not include these reductions. 8/ Under 1990 modified contracts, participating producers plant up to 105 percent of their wheet base acres. For every acre planted above 95 percent of base, the screage used to compute deficiency payments was cut by 1 acrs. 7/ Amarketing loan has been in effect for rice since 1985/86. Loans may be repeld at the flower of: a) the loan rate or b) the adjusted world market price (announced weekly). However, ioans cannot be repaid at less than a specified fraction of the loan rate. Data refer to market-year average loan repayment rates. 8/ The sorghum, cals. 5 barley programs are the same as for corn except as indicated. 9/ There are no target prices, base acres, acreage reduction programs, or deficiency Payment rates for soybeans. 10/ Nominal percentage of program crop base acres permitted to white into soybeans without loss of base. 11/ Amarketing loan has been in effect for cotton since 1996/87. In 1987/88 & after, loans may be repeld at this lower of. a) the loan rate or b) the adjusted world market price (announced weekly, Plan B). Starting in 1991/92, loans cannot be repaid at less than 70 percent of the loan rate. Data refer to annual average loan repayment rates. 12/ A marketing certificate program was implemented on Aug. 1, 1991. — = not available.

Note: 1993 effective base acres and participation rates are from the May 18 Final Compliance Report

Information contact: Agricultural Stabilization and Conservation Service (202) 690-0640.

<sup>&</sup>quot;For wheat, the 1991/92 rate is the total deficiency payment rate for the "regular" program. For the winter wheat option, the rate is \$1.25, "" For wheat, corn, sorghum, barley and oats, regular deficiency payment rate based on the 5-month price. For rice and upland cotton, total deficiency payment rate. ""Estimated total deficiency payment rate based on Fiscal Year 1995 President's Budget Mid-Session Review.

Table 20.—Fruit

	1985	1986	1987	1988	1989	1990	1991	1992	1993 P
Citrus 1/ Production (1,000 ton) Per capita consumpt. (lbs.) 2/	10,525 21.5	11,058 24.2	11,993 23,9	12.761 25.4	13,186 23.5	10,860 21,4	11,285 19,1	12,452 24.4	15,346 28.0
Noncitrus 3/ Production (1,000 tons) Per capita consumpt. (lbs.) 2/	14,191 65 4	13,874 68.9	18,011 <b>72.5</b> 8	15,893 72.4	18,365 73,1	15.857 71.1	15.748 <b>7</b> 0.6	17,116 73.9	16,556 74.0
	1993				1	994			
	Dec	Jan	Feb	Mar	Арг	May	June	July	Aug
F.o.b. shipping point prices Apples (\$/carton) 4/ Pears (\$/box) 5/	12.00 10.05	12.00 16.40	13.00 16.33	12.30 14.00	11.25 15.00	10.43 7.70	10.00 18.38	15.40 16.00	12.93
Grower prices Oranges (\$/box) 6/ Grapetruit (\$/box) 8/	3.95 4.38	3.91 3 20	4.14 3.20	4.48 2.54	5 35 2.27	5.81 1.53	5.31 0.97	3.47 1.82	4 56 3.95
Stocks, ending Fresh apples (mil. lbs.) Fresh pears (mil. lbs.) Frozen fruits (mil. lbs.)	4,427.9 358.5 1,008.8	3,747.3 297.3 935.7	2,937.8 238.9 848.3	2,205.0 166.0 769.6	1,582,8 122.0 761.2	1,021.9 55.6 737.1	567.4 14.8 812.1	260 1 44.2 981.5	69.0 198.7 1,035.4
Frozen orange juice (mil. Ibs.)	955 5	1,229.0	1,407.3	1.273.9	1,499.6	1,615.2	1,521.8	1,449.1	1,260.9

<sup>1/ 1992</sup> indicated 1991/92 season. 2/ Fresh per capita consumption. 3/ Calendar year. 4/ Red delicious, Washington, extra fancy, carton tray pack, 125's 5/ D'Anjou, Washington, standard box wrapped, U.S. no. 1, 135's. 6/ U.S. equivalent on-tree returns. P = preliminary. — = not available.

Information contact: Disne Bertelsen (202) 219-0887

Table 21.—Vegetables

					Cale	ndar year				
	1984	1985	1986	1987	1968	1989	1990	1991	1992	1993 P
Production Total vegetables (1,000 cwt) Fresh (1,000 cwt) 1/3/ Processed (tons) 2/3/ Mushroome (1,000 lbs) 4/ Potatoes (1,000 cwt) Sweetpotatoes (1,000 cwt) Dry edible beans (1,000 cwt)	456,334 201,817 12,725,880 596,881 362,039 12,902 21,070	453,030 203,549 12,474,040 587,956 406,809 14,573 22,298	448.629 203.165 12.273.200 614.393 361.743 12.388 22.960	478,381 220,539 12,892,100 631,819 389,320 11,611 26,031	488,779 228,397 12,019,110 687,759 356,438 10,945 19,253	542,437 239,281 15,157,790 714,992 370,444 11,358 23,729	561,704 239,104 16,130,020 749,151 402,110 12,594 32,379	584.581 229.505 16.753.820 746.832 417.622 11.203 33,765	538,837 245,752 14,844,280 776,357 425,387 12,005 22,815	532,109 237,027 14,754,080 754,783 419,415 11,053 21,842
		1993					1994			
	Aug	Dec	Jan	Feb	Mar	Apr	May	<b>វ</b> បកម	July	Aug
Shipments (1,000 cwt) Fresh Iceberg lettuce Tomatoes, ell Dry-bulb onlons Other 5/	17.974 4,413 2,438 3.082 8.041	18,056 3,877 2,069 2,792 9,318	17,281 3,376 2,568 2,363 8,974	17.809 3.407 3.074 2.282 9.048	24,149 4,615 3,876 3,450 12,208	22,043 3,849 3,114 3,368 11,712	24.714 4.119 2.830 2.864 14.901	33.842 4.774 3.999 3.482 21,587	18,145 3,891 2,898 3,000 8,356	18,743 4,205 2,818 3,643 8,077
Potatoes, all Sweetpotatoes	9,424 167	13 694 335	13,141 172	12.953 211	20,075 347	18,218 1 <b>6</b> 5	15,1 <del>66</del> 163	13,447 135	8,703 83	10,944 132

<sup>1/</sup> Includes fresh Production of apparagus, proccoli, carrots, cauliflower, celery, sweet corn, lettuce, honeydews, onions, & tomatoes, 2/ Includes processing production of enep beans, sweet corn, green peas, tomatoes, cucumbers (for pickles), apparagus, proccoli, carrots, & cauliflower, 3/ Excludes estimates reinstated in 1992 to Preserve series comparability, 4/ Fresh & processing agaricus mushrooms only. Excludes specialty varieties. Crop year July 1 – June 30. 5/ Includes snap beans, proccoli, cabbage, carrots, cauliflower, celery, sweet corn, cucumbers, eggplant, bell peppers, equast, canteloupes, honeydews, & watermelons, p = preliminary. — = not available.

Information contacts: Gary Lucier (202) 219-0117 or John Love (202) 219-0388.

Table 22.—Other Commodities

			Annual				1993			1994
	1989	1990	1991	1992	1993	Apr-June	July-Sept	Oct-Dec	Jan-Mar	Apr-June
Sugar Production 1/ Deliveries 1/ Stocks, ending 1/	6.841 8.340 2.947	6,334 8,681 2,729	7,145 8.704 3.039	7.501 8.936 3.225	7,766 9,030 3,486	825 2,201 3,014	735 2,4 <b>9</b> 1 1,673	3.913 2.270 3.486	2,194 2,11 <b>6</b> 3,980	628 2,277 2,631
Coffee Composite green price N.Y. (cts./lb.) Imports, green bean	95.17	76.93	70.09	55.30	64.31	55 07	69 47	72.21	78 08	110.44
equiv. (mil. lbs ) 2/	2.685	2.715	2,553	2,989	2,498	596	575	570	561	446
		Annual		1	993			1994		
Tobacco	1991	1992	1993	May	Dec	Jan	Feb	Mar	Ąрг	May
Avg. price to grower 3/ Flue-cured (\$/lb.) Burley (\$/lb.)	172.3 178.8	172 6 181.6	168.9 161.5	=	181.6	180 5	179.0	=	=	=
Domestic consumption 4/ Cigarettes (bil.) Large cigars (mil.)	516 3 2.231,9	509 5 2.21 <b>7</b> .1	462. <b>9</b> 2,237.8	39.4 175.2	39.2 210.3	34.4 139.3	38.0 156.1	44.4 204.4	37.8 177 2	39.4 196.9

<sup>1/ 1,000</sup> short tons, raw value. Quarterly data shown at end of each quarter. 2/ Net imports of green & processed coffee 3/ Crop year July-June for flue-cured. Oct.-Sept for burley. 4/ Taxable removals. -- = not available.

#### **World Agriculture**

Table 23.—World Supply & Utilization of Major Crops, Livestock & Products

	1988/89	1989/90	1990/91	1991/92	1992/93 P	1993/94 F	1994/95 F
				Million units			
Wheat Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	217.4	225.8	231.5	222 4	222.7	222.0	215.3
	495.0	533.2	588.2	542.6	561.5	558.8	532.0
	102.4	102.8	101.2	109.3	112.5	98.8	96.8
	524.3	532.2	583.5	558 2	545.2	566.7	558.4
	120.5	121.5	146.2	130.6	148.9	139.0	114.5
Coarse grains Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	323.4	321.1	314.5	318.2	318.9	310.4	311.4
	721.0	791.0	821.7	803.1	862.8	785.4	858.4
	95.5	103.9	88.4	84.4	90.1	63.4	84.9
	785.0	813.8	809.3	806.5	833.6	828.1	848.4
	151.0	128.2	140.6	137.2	166.4	123.7	133.7
Rice, milled Area (hectares) Production (metric tons) Exports (metric tons) 4/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	145.5	146.6	146.7	148.1	145.2	144.3	144.9
	330.1	343.1	350.7.	352.3	352.5	350.3	352.1
	13.9	11.7	12.1	14.1	14.8	15.5	15.1
	327.7	336.5	345.9	355.9	353.4	355.2	357.5
	47.9	54.5	59.2	55.6	54.7	49.9	44.4
Total grains Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	686.3	693.5	692.7	686.7	686.8	676.7	671.6
	1,546.1	1,867.3	1,760.8	1,698.0	1,776.8	1,694.5	1,742.5
	211.8	218.4	201.7	217.8	217.4	197.7	196.8
	1,637.0	1,682.5	1,718.7	1,720.6	1,732.2	1,750.0	1,762.3
	319,4	304.2	346.0	323.4	368.0	312.6	292.6
Oilseeds Crush (metric tons) Production (metric tons) Exports (metric tons) Ending stocks (metric tons)	164.5	171.7	176.6	185.2	183.6	186.4	197.7
	201.6	212.4	215.7	224.5	227.1	227.1	251.4
	31.5	35.6	33.4	37.6	37.7	37.1	41.9
	22.1	23.7	23.4	21.8	23.3	20.5	28.6
Meals Production (metric tons) Exports (metric tons)	111.1	116.8	11 <b>9.1</b>	125.0	124.2	127.8	134.5
	37.4	39.8	40.7	43.2	41.6	42.9	44.0
Oils Production (metric tons) Exports (metric tons)	53.3	57.1	58.1	60. <b>6</b>	60.9	<b>62.2</b>	85.8
	18,1	20.4	20.5 a	21.1	20.8	21.8	22.4
Cotton Area (hectares) Production (bales) Exports (bales) Consumption (bales) Ending stocks (bales)	33.8	31.6	33.2	34.8	32.6	30.5	32.6
	84.4	79.7	87.0	96.0	62.6	76.5	87.0
	33.4	31.3	29.7	28.1	25.4	26.6	27.0
	85.3	86.8	85.5	84.5	85.5	84.8	86.1
	31.4	25.8	28.1	40.1	37.6	29.6	30.2
	1988	1989	1990	1991	1992	1993 P	1 <del>99</del> 4 F
Red meat Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	110.5	112.3	113.9	115.5	116.5	116.9	11 <b>9.</b> 9
	108/3	110.9	111.8	113.5	113.5	114.2	117.2
	8	8.2	8.2	8.4	7.9	8.0	8.1
Poultry 5/ Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	32	32.4	34.2	36.1	38.3	39.7	41.2
	31.4	31.8	33.5	35.5	37.8	39.1	40.7
	1.7	1.7	1.9	2.2	2.3	2.7	2.8
Dairy Milk production (metric tons) 6/		387.4	395.3	385.3	379.6	379 9	381.1

<sup>1/</sup> Excludes intra-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes. 3/ Stocks data are based on differing marketing years & do not represent levels at a given date. Data not available for all countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calendar year data. 1969 data correspond with 1988/89, etc. 5/ Poultry excludes the Peoples Republic of China before 1986. 6/ Data prior to 1989 no longer comparable. P = preliminary. F = forecast. — \* not available.

Information contacts: Crops, Carol Whitton (202) 219-0825; red meat & poultry, Shayle Shagam (202) 219-0360; dairy, James Miller (202) 219-0770.

#### **U.S. Agricultural Trade**

Table 24.—Prices of Principal U.S. Agricultural Trade Products\_

		Annual		1993				1994		
	1991	1992	1993	Aug	Маг	Apr	May	June	July	Aug
Export commodities Wheat, f.o.b, vessel, Gulf ports (\$/bu.)	3.52	4.13	3.83	3.56	3.85	3.83	3,82	3.79	3.75	4.03
Corn, f.o.b. vessel, Gulf ports (\$/bu.)	2.75	2.66	2.62	2.61	3 05	2.87	2.81	2.85	2.50	2.44
Grain sorghum, flo.b. vessel,					0.00	0.74	0.77	2.75	0.40	0.44
Gulf ports (\$/bu.) Soybeans, f.g.b. vessel, Gulf ports (\$/bu.)	2.69 6.05	2.63 6.01	2.56 6.53	2.58 7.01	2.93 7.12	2.74 6.88	2.77 7.04	6,99	2.49 6.29	2.44 5.98
Soybean oil, Decatur (cts./lb.)	20.14	19,18	22.83	23.34	26.82	27.95	29.01	27.51	24.50	24 49
Soybean meal, Decatur (\$/ton)	172 90	177.79	199.18	219.06	194.96	189.22	193.07	196.60	181.81	178.95
Cotton, 7-market svg. spot (cts./lb.) Tobacco, avg. price at auction (cts./lb.) Rice, f.o.b. mill, Houston (\$/cwt) Inedible tallow, Chicago (cts./lb.)	69.69 179.23 16.46 13.26	53.90 172.58 16.80 14.37	55.36 171.95 16.12 14.89	53.04 159.05 13.50 14.25	72.74 158.01 24.88 15.44	76.12 169.97 23.25 14.94	79.34 169.97 21.40 15.56	76.85 169.97 19.25 16.27	71.87 172.04 17.25 17.28	70.32 180.08 15.80 19.00
Import commodities Coffee, N.Y. spot (\$/lb.) Rubber, N.Y. spot (cts./lb.) Cocoa beans, N.Y. (\$/lb.)	0.71 45.73 0.52	0.50 48.25 0.47	0.59 <b>45</b> .00 0.47	0.63 <b>43</b> .85 0.46	0.74 49.82 0.55	0.79 50.83 0.52	1.10 51.42 0.58	1.27 55.08 0.81	2.15 62.49 0.66	1.89 66.35 0.65

Information contact: Mary Teymourism (202) 501-8516.

Table 25.—Indexes of Real Trade-Weighted Dollar Exchange Rates  $^{1/}$ 

	1993						1994				
	Dec	Jan	Feb	Mar	Apr	May P	Jun P	July P	Aug P	Sep P	Oct P
						1985 = 10	00				
Total U.S. trade 2/	70.8	70.1	69.1	68.9	87.7	67.1	65.3	65.5	64.8	64.1	63.3
Agricultural trade U.S. markets U.S. competitors	77.9	77.0	78.6	76.5	78.2	78.2	74.7	74.8	74.4	74.1	73.7
	78.1	78.3	77.8	78.2	77.3	78 8	75.5	75.4	75.0	74.6	74.0
Wheat U.S. markets U.S. competitors	92.9	91.6	90.7	91.0	91.1	91.2	89.6	89.1	68.8	88.5	88.1
	76.8	77.2	77.8	78.0	77.5	77.0	76.5	76.4	76.3	7 <b>6</b> .1	75.8
Soybeans U.S. markets U.S. competitors	<b>67.</b> 2	66.2	65.5	65 1	64.5	64.1	62.4	62.6	62.0	61.5	60.9
	48.7	48.6	48.1	47.9	47.7	48.1	47.7	47.6	47.5	47.4	47.3
Corn U.S. markets U.S. competitors	68.4	67.0	66.8	66.4	66.4	66.7	65.2	<b>6</b> 5.3	65.1	64.8	<b>6</b> 4.6
	59.8	59.7	59.1	59.2	58.5	58.0	57.0	57.0	56.6	56.2	55.7
Cotton U.S. markets U.S. competitors	73.1	71.6	71.3	70.8	70.5	70.3	<b>69.</b> 0	69.2	68.6	<b>68 4</b>	68.0
	104.3	105.3	105.0	105.8	104.2	102.8	100.5	100.1	99.3	98.5	97.4

<sup>1/</sup> Real Indexes adjust nominal exchange rates for differences in rates of inflation, to avoid the distortion caused by high-inflation countries. A higher value means the dollar has appreciated. See the October 1988 issue of Agricultural Outlook for a discussion of the calculations and the weights used. 2/ Federal Reserve Board Index of trade-weighted value of the U.S. dollar against 10 major currencies. Weights are based on relative importance in world financial markets. P = preliminary.

Information contact: Douglas Rhoades (202) 219-0754.

Table 26.—Trade Balance

					Flecal year 1	/			July
	1987	1988	1989	1990	1991	1992	1993	1994 F	1994
					\$ million				
Exports Agricultural Nonagricultural Total 2/	27,876 202,911 230,787	35,316 258,656 293,972	39,590 301,269 340,859	40,220 325,059 366,279	37,809 356,682 394,291	42,430 383,517 425,947	42,590 390,783 433,373	42,500 	3,148 33,921 37,069
Imports Agricultural Nonagricultural Total 3/	20,650 367,374 388,024	21,014 409,138 430,152	21.476 441,075 462,551	22,5 <del>6</del> 0 458,101 480,661	22.588 463.720 486,308	24,323 488,55 <del>0</del> 512,879	24,454 537,584 562,038	25,500	1,972 52,292 54,264
Trade balance Agricultural Nonagricultural Total	7.226 -164,463 -1 <b>57</b> ,237	14.302 -150,482 -136.180	18,114 -139,806 -121,692	17,680 -132,042 -114,382	15.021 -107,038 -92,017	18,107 -105,039 -86,932	18,136 -148,861 -128,865	17.000	1.176 -18,371 -17,195

<sup>1/</sup> Fiscal years begin October 1 & end September 30. Fiscal year 1994 began Oct. 1, 1993 & ended Sept. 30, 1994. 2/ Domestic exports including Department of Defense shipments (F.A.S. value). 3/ imports for consumption (customs value). F = forecast. — = not available.

Information contact: Joel Greene (202) 219-0816.

Table 27.—U.S. Agricultural Exports & Imports

		Fiecal yes	r*	July		Flecal year*		July
	1992	1993	1994 F	1994	1992	1993	1994 F	1994
EXPORTS		1,000 ur	nits			\$ million		
Animals, live (no.) 1/ Meats & preps., excl. poultry (mt)	1,478 1,107 174	1,107 1,160 211	2/ 1,000	98 115	567 3,238 641	358 3,349 <b>76</b> 2	900	30 289 45
Dairy products (mt) 1/ Poultry meats (mt) Fats, oils, & greases (mt)	794 1,392	986 1,382	1,300 1,300	110 96	915 498	1,031 <b>519</b>	_	115 39
Hides & skins Incl. furskins Cattle hides, whole (no.) 1/ Mink pelts (no.) 1/	20,803 3.160	19,784 3,119	-	1, <del>6</del> 85 188	1,336 1,106 52	1,288 1,082 <b>56</b>	=	127 100 7
Grains & feeds (mt) Wheat (mt) Wheat flour (mt) Rice (mt) Feed grains, incl. products (mt)	100,881 34,322 813 2,279 50,752 11,267	103,743 38,078 1,075 2,710 50,705 11,500	31,000 1,000 2,400 38,700 5/11,900	6,153 1,805 135 213 2,954 916	13,873 4,323 165 757 5,801 2,019	14,104 4,737 217 766 5,261 2,147	3/13,200 4/4,200 900 4,500	935 240 21 87 324 180
Feeds & lodders (mt) Other grain products (mt)	1,448	1,678		130	807	976	_	82
Fruits, nuts, & preps. (mt) Fruit juices incl.	3,505	3.398	_	297	3,514	3,409	4,100	295
(roz. (1,000 hectoliters) 1/ Vegetables & preps. (mt)	7,767 2,703	7,845 2, <b>79</b> 0	_	940 262	42 <b>7</b> 2,7 <del>9</del> 0	423 3,220	_	50 287
Tobacco, unmanufactured (mt) Cotton, exci, linters (mt) Seeds (mt) Sugar, cane or beet (mt) 1/	246 1,494 <del>6</del> 12 492	231 1,125 533 337	1,800	10 136 <b>64</b> 46	1,568 2,183 650 154	1,443 1,528 648 108	1,200 2,300 600	62 223 30 16
Oilseeds & products (mt) Oilseeds (mt) Soybeans (mt) Protein meal (mt) Vegetable oils (mt) Essential oils (mt) Other	28,671 19,639 19,277 7,082 1,651 13	29,190 21,049 20,400 5,539 1,601 13 92	15,800	1.038 494 465 423 120 1	7,162 4,735 4,318 1,445 982 184 2,733	7,211 4,982 4,606 1,261 968 185 3,011	4,100 ———————————————————————————————————	315 145 119 78 92 18 273
Total	142,175	145,171	125,600	8.349	42,430	42,590	42,500	3,148
IMPORTS								
Animals, live (no.) 1/ Meats & preps., excl. pouttry (mt) Beef & veal (mt) Pork (mt)	2,830 1,134 813 263	3,461 1,128 793 276	780 315	192 101 72 24	1,275 2,684 1,933 625	1,569 2,728 1,919 663	1,300 1,900 800	98 224 154 58
Dairy products (mt) 1/ Poultry & products 1/	232	231		22	81 <b>6</b> 132	860 137	900	83 11
Fats, oils, & greases (mt) Hides & skins, incl. furskins 1/	46  54	44 60	=	3 4	26 185 167	30 181 173	=	2 12 13
Wool, unmanufactured (mt)  Grains & feeds (mt)	5,448	4,942	10,300	726	1,548	1,639	2,200	182
Fruits, nuts, & props., excl. juices (mt) Bananas & plantains (mt) Fruit juices (1.000 hectoliters) 1/	5,883 3,626 25,049	6,089 3,737 27,053	8,000 3,700 28,000	452 304 2,284	2,919 1,083 871	2,988 1,083 640	1,000	222 80 45
Vegetables & preps. (mt) Tobacco, unmanufactured (mt) Cotton, unmanufactured (mt) Seeds (mt) Nursery stock & cut flowers 1/	2,171 364 11 1 <b>74</b>	2,733 386 12 189	300 300	137 8 1 6	2,125 1,299 10 214 578	2,440 1,101 11 214 829	2,800 900 400	170 18 1 12 34
Sugar, cane or beet (mt)	1,623	1,569		75	633	591	-	28
Oilseeds & products (mt) Oilseeds (mt) Protein meal (mt) Vegetable oils (mt)	2,330 429 629 1,273	2,484 373 518 1,492		211 42 58 111	1,124 135 84 904	1.204 130 89 985	1,400	111 14 8 89
Beverages excl. fruit juices (1,000 hectoliters) 1/ Coffee, tea. cocca, spices (mt) Coffee, incl. products (mt) Cocca beans & products (mt)	13,738 2,391 1,330 773	14,014 2,244 1,185 770	1,990 900 800	1,528 144 75 49	2,044 3,415 1,798 1,122	1,975 3,018 1,502 1,028	1,800 1,100	188 317 202 75
Rubber & allied gums (mt) Other	920	981	1,100	67	756 1,503	839 1.488	900	67 132
Total	_	_	_	_	24,323	24,454	25.500	1,972

<sup>\*</sup>Fiscal years begin Oct. 1 & end Sept. 30. Fiscal year 1994 began Oct. 1, 1993 & ended Sept. 30, 1994. 1/ Not included in total volume. 2/ Forecasts for footnoted items 2/-5/ are based on slightly different groups of commodities. Totals for fiscal 1993 forecast commodities were 2/ 903,000 tons. 3/ \$14,332 million. 4/ \$4,954 million, includes flour, 5/ 11,885 million tons. F = forecast. — = not available.

Information contact: Joel Greene (202) 219-0816.

Table 28.—U.S. Agricultural Exports by Region

		Fiscal year*		July	Chang	e from year	* earlier	July
Region & country	1992	1993	1994 F	1994	1992	1993	1994 F	1994
,		\$ million				Percent		
WESTERN EUROPE European Union Belglum-Luxembourg France Germany Italy	7,740 7,193 461 618 1,091 684	7,499 7,022 482 613 1,146 568	6,800 6,300 — — —	378 341 32 29 50 25	6 6 -1 8 -4	-3 -2 5 -1 5 -17	-9 -10  	1 0 34 -11 6 26
Netherlands United Kingdom Portugai Spain, incl. Canary Islands	1,812 882 240 951	1,801 916 223 829		73 63 11 27	18 0 -4 11	-1 4 -7 -13	=	-24 9 124 -26
Other Western Europe Switzerland	546 167	477 152	500	36 10	2 -4	-13 -19	<u>5</u>	17 13
EASTERN EUROPE Poland Former Yugoslavia Romania	222 49 50 76	468 230 47 107	300	17 12 1 2	-27 7 -32 -7	111 368 -6 42	-36 	-18 93 101 -77
Former Soviet Union	2,704	1,561	1,500	86	54	-42	-4	-13
ASIA West Asia (Mideast) Turkey Iraq Israel, Incl. Gaza & W. Bank Saudi Arabia	17,782 1,770 344 0 346 549	17,832 1,922 369 1 382 463	17,400 1,700 0 400 500	1,474 129 11 0 38 25	10 24 54 0 21 2	0 9 7 150 10 -18	-2 -12 -5 8	9 -5 -64 0 -24 36
South Asia Bangładesh India Pakistan China Japan	536 123 117 226 690 8.383	841 52 226 236 322 8.461	300 700 9,400	27 3 12 1 128 648	43 84 24 57 3 8	20 -58 93 4 -53	27 117 11	-4 505 73 -4 1,985 -2
Southeast Asia Indonesia Philippines	1,470 353 443	1,551 327 512	500	140 37 39	19 27 19	-7 18	-2	12 20 -15
Other East Asia Talwan Korea, Rep. Hong Kong	4,934 1,916 2,200 817	4,935 1,999 2,041 880	5,200 2,200 1, <b>9</b> 00 1,000	403 129 176 97	10 2 10	0 4 -7 8	5 10 -7 14	3 -17 4 47
AFRICA North Africa Morocco Algeria Egypt Sub-Sahara Nigeria Rep. S. Africa	2,304 1,411 156 478 709 893 31 328	2,671 1,659 310 458 756 1,012 158 383	700 800 700	148 103 11 38 40 44 7 8	22 2 21 0 2 80 -30 343	16 18 98 -4 7 13 413	-21 -16 	-11 20 -22 50 -9 -45 -53 -52
LATIN AMERICA & CARIBBEAN Brazii Caribbean Islands Central America Colombia Mexico Peru Venezuela	6,438 143 970 587 142 3,676 179 394	6,883 231 1,015 675 234 3,660 172 502	7,000 200 — — 3,900 400	591 13 70 48 22 371 22 16	17 -47 -4 18 15 27 19 28	7 81 5 15 65 0 -4 27	-13 -23 -7 -20	-6 -26 -23 -25 128 3 13 -48
CANADA	4,812	5,220	5,200	439	9	8	0	2
OCEANIA	428	456	500	37	23	8	10	-5
TOTAL	42,430	42.590	42,500	3,148	13	.0	0	-2
Developed countries	21,968	22,337	22,200	1,540	9	2	4 <b>-1</b>	-1
Developing countries	19,771	19,916	_	1,414	-17	1	_	-1
Other countries	691	335	-	194	3	-51		138

<sup>\*</sup>Fiscal years begin Oct. 1 & end Sept. 30. Fiscal year 1994 began Oct. 1, 1993 & ended Sept. 30, 1994. F = forecast --- = not available. Note: Adjusted for transshipments through Canada.

Information contact: Joel Greene (202) 219-0816.

#### Farm Income

Table 29.—Farm Income Statistics

					(	Calendar y	ear					
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993 P	1	994 F
						\$ billion	1					
<ol> <li>Farm receipts         Crops (incl. net GCC loans)         Livestock         Farm related 1/</li> </ol>	147.7 69.9 72.9 4.9	150.1 74.3 89.8 8.0	140.0 63.7 71.6 5.7	148.6 65.9 76.0 6.6	158.4 71.7 79.4 7.3	168.9 77.0 84.1 7.8	177.5 80.1 89.8 7.6	170.0 82.1 80.7 7.8	179.0 84.9 85.3 7.8	183 9 84.5 90.5 8.0	88 89	to 192 to 92 to 93 to 9
Direct Government payments     Cash payments     Value of PIK commodities	8.4 4.0 4.5	7.7 7.8 0.1	11.8 8.1 3.7	18.7 6.8 10.1	14.5 7.1 7.4	10.9 9.1 1.7	9.3 8.4 0.9	8.2 8.2 0.0	9,2 9,2 0,0	13.4 13.4 0	8	to 10 to 10 to 1
3. Gross cash Income (1+2) 2/ 4. Nonmoney Income 3/ 5. Value of inventory change 6. Total gross farm income (3+4+5)	156 1 5.9 8.0 168.0	157.9 5.6 -2.3 161.2	152.8 5.5 -2.2 156.1	165.1 5.6 -2.3 168.5	172 0 0.3 -3.4 175.8	179.8 8 1 4.8 192.8	186.8 8.0 3.4 198.2	184 0 7.7 -0.3 192.3	188.2 7.8 4.3 200.2	197 2 7.9 -3.6 201.4	7 4	to 202 to 9 to 6 to 215
7. Cash expenses 4/ 8. Total expenses	118.7 141.9	110.7 132.4	105.0 125.1	109.4 128.8	119.0 137,8	125.6 144.9	131.8 151.3	131.7 151.2	130.8 150.1	138.7 158.0		to 145 to 165
9. Net cash income (3-7) 10. Net farm income (8-8) Deflated (1987\$)	37.4 20 1 28.7	47.1 28.8 30.5	47 8 31.0 32.0	55.8 39.7 39.7	53.0 38.0 37.3	54.2 47.9 43.3	55.1 46.9 41.1	53 2 41.1 34.9	57.4 50.1 41.5	58.5 43.4 34.9		to 57 to 51 to 41

<sup>1/</sup> Income from machine hire, custom work, sales of forest products. & other miscellaneous cash sources. 2/ Numbers in parentheses indicate the combination of items required to calculate a given item. 3/ Value of home consumption of self-produced food & impulsed gross rental value of term dwellings. 4/ Excludes capital consumption, perquisites to hired labor, & farm household expenses. Total may not add because of rounding. P = preliminary. F = forecast.

Note: 1888-92 accounts (primarily expenses) have been revised to reflect improved methods for estimating farm income. Call contact for information.

Information contact. Robert McElroy (202) 219-0802

Table 30.—Average Income to Farm Operator Households \_\_\_\_\_\_

			C	alendar year			
	1989	1990	1991	1992	1993 P		1994 F
			\$ per opere	itor household			
Farm income to household 1/	5.796	5.742	5,810	7,180	5,125	4.300	to 5.900
Self-employment farm income	4,723	4,973	4,458	5,172	4,710		_
Other farm income to household	1,073	768	1,352	2.008	415		_
Plus: Total off-farm Income Income from wages, salaries, and	28,223	33,265	31,638	35,731	33,17 <b>8</b>	35, <b>500</b>	to 37,500
non-farm businesses Income from interest, dividends.	19,487	24,778	23,551	27.022	23,868		
transfer payments, etc.	<b>8.</b> 756	8,487	8,087	8,709	9,308		
Equals: Farm operator household Income	32.019	39,007	37,447	42,911	38,300	39,900	to 43,400

<sup>1/</sup> Farm income to the household equals self-employment income plus amounts that operators pay themselves & family members to work on the farm. Income from renting out acreage, & net income from a farm business other than the one being surveyed. Data for 1989–90 are based on surveys that did not fully account for small farms. Data for 1991 include an additional 350,000 farms, many with gross sales under \$10,000 & negative net farm incomes. P = preliminary. F = forecasts. — = not available at this time.

information contact: Janet Perry (202) 219-0803.

Table 31.—Balance Sheet of the U.S. Farming Sector

					Calend	ar year 1/						
	1984	1985	1988	1987	1988	1989	1990	1991	1992 P	1993.F	1	1994 F
						\$ billion						
Assets Real estate Non-real estate Livestock & poultry Machinery & motor	661.8 195.2 49. <b>5</b>	586.2 186.5 46.3	542.3 182.1 47.8	578.9 193.7 58.0	595.5 205.6 62.2	615.7 214.1 66.2	628.2 220.2 70.9	823,2 219,1 68,1	633.1 228.4 71.3	656 229 72	677 230 72	to 687 to 240 to 76
vehicles Crops stored 2/ Purchased Inputs Financial assets Total farm assets	85.0 26.1 2.0 32.6 857.0	82.9 22.9 1.2 33.3 772.7	81,5 1 <b>6.3</b> 2.1 34.5 724.4	80.0 17.5 3.2 35.1 772.6	81.2 23.3 3.5 35.4 801.1	.85.1 23.4 2.6 36.8 829.7	85.4 22.8 2.8 38.3 848.4	85.8 22.0 2.6 40.6 842.2	85.6 24.1 3.9 43.4 861.5	85 23 4 45 886	86 24 2 45 915	to 28 to 4 to 49
Liabilities Real estate debt 3/ Non-real estate debt 4/ Total farm debt Total farm equity	108.7 87.1 193.8 663.3	100.1 77.5 177.6 595.1	90.4 66.6 157.0 567.5	82.4 62.0 144.4 628.2	77.6 61.7 139.4 661.7	75.4 61.9 137.2 692.4	74.1 63.2 137.4 710.9	74.6 64.3 138.9 703.3	75.6 63.6 139.3 722.2	78 86 142 744	75 64 141 771	to 79 to 88 to 145 to 781
						Percent						
Selected ratios Debt-to-assets Debt-to-equity Debt-to-net cash income	22. <b>6</b> 29.2 518	23.0 29.8 377	21.7 27.7 328	18.7 23.0 259	17.4 21.1 256	16.5 19.8 251	16.2 19.3 246	16.5 19.7 260	16.2 19.3 245	16 19 247	15 18 260	to 17 to 20 to 270

1/ As of Dec. 31, 2/ Non-CCC crops held on terms plus value above loan rates for crops held under CCC. 3/ Excludes debt on operator dwellings, but includes CCC storage and drying facilities loans. 4/ Excludes debt for nonfarm purposes. F = forecast

Information contacts: Ken Erickson, (202) 219-0799, Jim Ryan (202) 219-0796.

Table 32.—Cash Receipts From Farm Marketings, by State

Deller F		Livestock	& products			C	crops 1/			1	Total 1/	
Region & State	1992	1993	June 1994	July 1994	1992	1993	June 1994 Hion 2/	July 1994	1992	1993	June 1994	July 1994
NORTH ATLANTIC Maine New Hampshire Vermont Massachusette	253 65 <b>38</b> 8 126	274 65 403 122	23 5 34 10	22 5 32 10	204 81 72 361	198 199 81 375	2 3 3 21	12 5 13 24	457 146 480 487	472 184 484 497	24 8 37 32	34 10 45 34
Rhode Island Connecticut New York New Jersey Pennsylvania	13 254 1,907 190 2,554	12 258 1,888 199 2,621	1 20 159 16 208	1 21 147 17 201	60 253 1,010 463 1,044	67 263 930 508 1,091	3 14 80 83 76	5 19 66 80 66	73 507 2.917 653 3.598	79 521 2,818 707 3,712	4 34 239 99 283	6 40 213 97 265
NORTH CENTRAL Ohio Indiana Illinois Michigan	1,550 1,824 2,253 1,311	1,673 1,931 2,248 1,376	132 154 165 107	130 141 185 109	2,558 2,639 5,395 1,910	2.720 3,186 5,834 1,991	157. 202 462 100	209 246 435 147	4,108 4,463 7,648 3,221	4,393 5,117 8.082 3,387	289 357 627 207	340 387 800 257
Wisconsin Minnesota łowa Miesouri	4,312 3,610 5,600 2,186	4,164 3,774 5,829 2,270	343 282 419 168	333 285 383 163	1,158 3,413 4,809 1,987	1,086 2,799 4,173 1,783	61 150 227 103	77 108 190 135	5,470 7,023 10,409 4,173	5,250 6,573 10,002 4,053	404 432 646 271	410 393 573 298
North Dakota South Dakota Nebraska Kansas	749 1,960 5,675 4,783	706 2,173 5,842 4,870	40 148 369 356	35 110 380 384	2,234 1,198 3,107 2,387	2,227 1,147 3,067 2,493	134 46 147 137	71 45 239 428	2,983 3,158 8,782 7,170	2,933 3,320 9,909 7,363	173 194 516 493	108 155 619 811
SOUTHERN Delaware Maryland Virginia West Virginia	451 789 1,382 267	463 806 1,385 328	46 76 114 26	41 72 112 24	177 576 778 76	1 <b>59</b> 560 683 77	13 37 43 7	12 57 69 7	628 1,365 2,140 343	622 1,366 2,068 405	59 113 157 33	53 129 161 32
North Carolina South Catolina Georgia Florida Kentucky Tennessee	2,798 545 2,305 1,160 1,640 1,058	3,201 603 2,572 1,202 1,720 1,012	259 42 233 89 93 83	253 44 239 93 270 78	2.379 652 1,781 4,932 1,563 1,063	2,256 618 1,639 4,548 1,856 1,027	116 53 116 399 54 48	134 49 95 246 53 37	5,177 1,197 4,086 6,092 3,203 2,121	5,457 1,221 4,211 5,750 3,376 2,039	375 95 350 488 147 131	386 93 334 339 322 114
Alabama Mississippi Arkansas Louisiana Oklahoma Texas	2,047 1,355 2,710 611 2,552 7,524	2,184 1,577 2,902 688 2,762 8,342	180 149 270 57 195 617	198 133 272 59 204 532	769 1,280 1,950 1,299 1,112 3,937	726 1,028 1,480 1,069 1,108 4,275	52 138 110 22 187 274	38 17 68 21 157 327	2,816 2,635 4,660 1,910 3,664 11,461	2,910 2,805 4,382 1,757 3,870 12,617	231 185 380 78 381 891	236 150 338 80 361 859
WESTERN Montana Idaho Wyoming Colorado	898 1,173 607 2,746	938 1,187 657 2,879	31 77 16 168	25 62 12 198	808 1.601 169 1,055	843 1,680 160 1,204	57 7.4 3 89	31 81 10 113	1,706 2,774 776 3,801	1,761 2,847 617 4,083	88 151 19 237	57 163 22 309
New Mexico Arizona Utah Nevada	1,039 893 558 202	1,135 885 626 187	79 70 49 14	77 72 52 12	492 947 195 74	1,037 177 102	57 69 11 7	67 48 15 10	1,531 1,840 753 276	1,621 1,922 803 289	136 138 60 21	144 119 67 22
Washington Oregon California Alaska Hawaii	1,548 798 5,056 <b>6</b> 88	1,561 739 5,246 6 85	125 55 418 0 8	122 51 409 1 7	2,888 1,662 13,841 20 431	3,013 1,737 14,804 20 406	203 107 931 2 34	185 193 1,230 2 35	4,436 2,460 18,897 26 519	4,574 2,476 19,850 26 491	328 162 1.350 2 42	307 244 1,638 42
	8	6	0	1	20	20	2	2	26	26	2	12.

<sup>1/</sup> Sales of farm products include receipts from commodities placed under nonrecourse CCC loans, plus additional gains realized on redemptions during the period. 2/ Estimates as of end of current month. Totals may not add because of rounding.

Information contact: Roger Strickland (202) 219-0808. To receive current monthly cash receipts via postal mail or e-mail contact Bob Dubman at (202) 219-0809 or BDUBMAN@ERS.BITNET.

Table 33.—Cash Receipts From Farming

			Annual			1993			1994		
	1989	1990	1991	1992	1993	July	Mar	Apr.	May	June	July
						\$ million					
Farm marketings & CCC toans	161,142	169,974	168,795	171,202	175,052	13.646	13,424	12.201	12.233	12.200	12,840
Livestock & products Meat animals Dairy Products Poultry & eggs Other	84,122	89.843	86.735	88,350	90.565	7,429	7,787	7.163	7.293	6.798	6,814
	46,867	51.911	61,089	48,457	61.364	4,009	4.354	3.763	4.065	3,363	3,266
	19,396	20.149	18,037	19,835	19.316	1,635	1,760	1.739	1.763	1,644	1,567
	15,372	15.243	16,122	15,480	17.241	1,409	1.481	1,483	1.281	1,594	1,566
	2,498	2,540	2,487	2,569	2,835	376	193	177	185	196	376
Crops Food grains Feed crops Cotton (lint & seed) Tobacco	77,020	80,131	82,080	84.853	84,497	6.217	5,638	5.038	4 941	5,402	6.025
	8,247	7,517	7,414	8,455	8,221	1.158	528	360	312	888	1.300
	17,054	18,671	19,491	19,782	19,338	1.408	1,524	1,052	928	1,209	1.233
	6,033	5,489	5,238	5,192	5,015	34	177	73	69	53	43
	2,415	2,741	2,886	2,961	2,949	57	32	0	0	0	65
Oil-bearing crops	11,866	12.258	12,709	13,277	13,048	657	775	518	701	734	501
Yegetables & melons	11,592	11,449	11,581	11,767	12,656	1, <b>108</b>	948	991	1,320	1,068	1,148
Fruits & tree nuts	9,157	9,420	9,909	10,123	9,927	1,038	476	449	480	710	970
Other	11.657	12.586	12,854	13,297	13,345	7 <b>6</b> 1	1,175	1,497	1,134	742	767
Government payments Total	10,887	9,298	6.214	9,1 <b>69</b>	13,174	8 <b>45</b>	1.320	1.337	736	248	74
	172,029	179,272	177,009	180,371	188.225	14,491	14.744	13.538	12,969	12,448	12,014

<sup>\*</sup> Sales of farm products include receipts from commodities placed under nonrecourse CCC loans, plus additional gains realized on redemptions during the Period. --- = not available.

Information contact: Roger Strickland (202) 2 t9-0806. To receive current monthly cash receipts via mall contact Bob Dubman at (202) 2 t9-0809 or BOUBMAN@ERS BITNET.

Table 34.—Farm Production Expenses\_

					Cale	ndar year					
	1985	1986	1987	1988	1989	1990	1991	1992	1993		1994 F
						\$ million					
Feed purchased Livestock & poultry purchased Seed purchased Farm-origin inputs	16,949 9,184 3,128 29,261	17.472 9,758 3.188 30,418	17,453 11,842 3,259 32,564	20.246 12,764 4,060 37,069	20,744 13,138 4,397 38,278	20,387 14,833 4,518 39,738	19.331 14.274 5,113 38,718	20,132 13,868 4,913 38,913	21,433 14,949 5,162 41,545	13,000	to 24,000 to 15,000 to 6,000 to 44,000
Fertilizer & lime Fuele & oils Electricity Pesticides Manufactured Inputs	7.512 6,436 1,878 4,334 20,159	6,820 5,310 1,795 4,324 18,249	8,453 4,957 2,156 4,512 18,078	7,879 4,800 2,360 4,148 18,987	8,176 4,772 2,648 5,012 20,807	6,208 5,790 2,807 5,362 21,967	8,667 5,608 2,634 6,319 23,228	8,333 5,299 2,611 6,469 22,712	8,398 5,364 2,677 6,718 23,157	8,000 5,000 2,000 6,000 21,000	to 8,000 to 6,000 to 3,000 to 8,000 to 25,000
Short-term interest Real estate interest 1/ Total interest charges	8,735 9,878 18,613	7,357 9,131 16,498	6,767 8,205 14,972	6,712 7,581 14,293	6,740 7,190 13,930	6,656 6,740 13,395	6,124 5,963 12,088	5,395 5,772 11,1 <b>67</b>	5,334 5,501 10,838	5,000 5,000 10.000	ta 5.000 lo 6.000 to 12.000
Repair & maintenance 1/ Contract & hired labor Machine hire & custom work	6,370 10.008 2.354	6,426 9,484 2,099	6,759 9,875 2,105	7.717 10,911 3,112	8,407 12,034 3,380	8,553 14.120 3,565	8.630 14.012 3,520	8,459 14,008 3,836	9,154 15,005 4,411	9,000 14,000 3,000	to 10,000 to 15,000 to 4,000
Marketing, storage, & transponation Misc, operating expenses 1/2/ Other operating expenses	4,127 10.010 32,868	3,652 9,759 31,420	4,078 11,171 34,088	3 <b>,516</b> 11,991 37,248	4,206 11,998 40,025	4.211 12.725 43,173	4,719 13,536 44,417	4,541 12,835 43,590	5,591 14.099 48.260	8.000 12,000 48,000	to 7.000 to 14.000 to 52.000
Capital consumption 1/	19.299 4.542	17,788 4,512	17,091 4.853	17.610 4,954	18.168 5,213	18.267 5,687	18.249 5,615	18,317 5.834	18.422 6,259	18,000 6,000	to 7,000
Net rent to nonoperator landiords Other overhead expenses	7,690 31.531	6,099 28,499	7.124 29,089	7. <b>619</b> 30,183	8,567 32.048	9.04 <b>9</b> 33,003	8,879 32,743	9.507 33.658	9,551 34.233	9,000 34,000	
Total production expenses	132.433	125,084	128,772	137,780	144,888	151.277	151,194	150.139	158.030	159.000	to 165.00

<sup>1/</sup> Includes operator dwellings. 2/ Beginning in 1982, miscellaneous operating expenses include other livestock purchases, dairy essessments & feeding fees paid by nonoperators. Totals may not edd because of rounding. P = preliminary. F = forecast.

Information contacts: Chris McGath (202) 219-0808, Robert McElroy (202) 219-0802.

Table 35.—CCC Net Outlays by Commodity & Function

				FI	scal year					
	1986	1987	1988	1989	1990	1991	1992	1993	1994 E	1995 E
					\$ million					
COMMODITY/PROGRAM Feed grains									-	
Corn Grain sorghum Barley Oats	10,524 1,185 471 26	12,346 1,203 394 17	8,227 764 57 -2	2,863 467 45 1	2. <b>435</b> 349 -94 -5	2,387 243 71 12	2,105 190 174 32	5,143 410 186 16	635 133 237 6	1,678 179 149 20
Corn & oat products Total feed grains	12,211	7 13,967	7 9,053	3,384	2,693	9 2.722	2,510	10 5,765	1,019	2,026
Wheat Rice Upland cotton	3,440 947 2,142	2.836 906 1.796	678 128 666	53 631 1.461	796 667 -70	2,805 867 382	1,719 715 1,443	2,185 887 2,239	1.972 756 1.496	2,015 1,031 384
							-		•	
Tobacco Dairy Soybeans Peanuts	253 2,337 1,597 32	-346 1,166 -476 8	-453 1,295 -1,676 7	-367 679 -86 13	-307 505 5 1	-143 839 40 48	29 232 -29 41	235 253 109 -13	641 237 -162 38	71 227 -38 86
Sugar Honey Wool	214 89 123	-65 73 152	~246 100 1/ 5	-25 42 93	15 47 104	-20 19 172	-19 17 191	-35 22 179	-25 10 210	-32 4 114
Operating expense 3/ Interest expenditure Export programs 4/ 1989/95 Disaster/Tree/	457 1,411 102	535 1,219 276	614 425 200	620 98 -102	618 632 -34	625 745 733	532 1,459	6 129 2,193	7. 57 1,804	7 27 1,397
livestock assistance Other	0 486	0 371	0 1.665	3,919 110	2/ 161 647	121 155	1,054 -162	944 949	3,047 685	1,080 1,387
Total	25,841	22,408	12.461	10,523	6,471	10.110	9,738	16,047	11,792	9,786
FUNCTION										
Price-support (cans (net), Direct payments 5/	13,628	12,199	4,579	-926	-399	418	584	2,065	621	321
Deficiency Diversion	6,166 64	4.633 382	3,971 9	5,798 -1	4,176	6,224	5,491 0	8,607	4,360 0	5,047
Dairy termination Loan Deficiency Other	489 27 0	587 60 0	280	168 42 0	189 3 0	96 21 0	2 214 140	0 387 149	0 483 137	0 76 75
Disaster Total direct payments	0 6,746	5.8 <b>6</b> 2	6 4,245	8.011	4,370	0 6,341	0 5,847	9,143	4,980	5,198
1988-95 crop disaster	0	0	0	3,386	2/ 5	6	960	872	2,946	1,000
Emergency livestock/tree/ forage assistance Purchases (net)	0 1,670	0 479	31 -1,131	533 116	156 -48	115 <b>64</b> 6	94 321	72 525	102 506	80 249
Producer storage payments	485	832	658	174	185	1	14	9	13	13
Processing, storage, & transportation	1,013	1.659	1,113	659	278	240	185	136	94	110
Operating expense 3/	457	535	614	620	618	625	6	6	'7	7
Interest expenditure Export programs 4/ Other	1,411 102 329	1,219 276 305	425 200 1,727	98 -102 -46	632 -34 708	745 733 240	532 1,459 -264	129 2,193 897	57 1,804 860	27 1,397 1,384
Total	25.841	22.408	12,461	10.523	6.471	10,110	9,738	16,047	11,792	9,786

1/ Fiscal 1988 wool & mohair program outlays were \$130,635,000 but Include a one-time advance appropriation of \$126,‡08,000, which was recorded as a wool program receipt by Treasury. 2/ Approximately \$1.5 billion in benefits to farmers under the Disaster Assistance Act of 1989 were paid in generic certificates in FY 90 & were not recorded directly as disaster assistance outlays. 3/ Does not Include CCC Transfers to General Sales Manager. 4/ Includes Export Guarantee Program, Direct Export Credit Program, CCC Transfers to the General Sales Manager. Market Promotion Program, starting in fiscal 1991 & starting in fiscal 1992 the Export Guarantee Program - Credit Reform, Export Enhancement Program, Dairy Export Incentive Program, and Technical Assistance to Emerging Democracies. 5/ Includes cash payments only. Excludes generic certificates in FY 86-94. E = Estimated in the FY 1995 Mid-Session Review Budget which was released July 14, 1994 based on June, 1994 supply & demand estimates. Minus (-) Indicates a net receipt (excess of repayments or other receipts over gross outlays of funds).

Information contact: Richard Pazdalski (202) 720-5148.

#### **Food Expenditures**

#### Table 36.—Food Expenditures

		Annual			1994		1	994 year-t	elab-o
	1991 R	1992 R	1993 R	July	Aug	Sept P	July	Aug	Sept P
				\$	billion				
Sales 1/					44.7			:-	
Off-premise use 2/ Meals & snacks 3/	318.4 229.6	319.7 237.8	327.0 251.2	29.1 23.5	28.7 23.2	28.0 21.9	192.1 151.2	220.8 174.5	248.6 196.4
				11	993 \$ billion				
Sales 1/									
Off-premise use 2/ Meals & enacks 3/	329 4 251.2	326.8 242.1	327.0 251.2	26.8 23.1	27.8 22.8	26 6 21.5	187.3 149.2	215.0 171.9	241.9 193.4
			Pe	rcent chang	e from year	earlier (\$ bll.)			
Sales 1/									
Off-premise use 2/ Meals & snacks 3/	4.5 3.1	0:4 3:8	2.3 5.6	1.6	4.1 3.5	4.3	2.6	3.0 5.0	3.1 4.6
Meals or suacks 26	3.1	3.0	5.0	9.8	3.0	3.7	5.2	0.0	4.0
			Pe	rcent chang	e from year	earlier (1993 :	\$ bil.)		
Sales 1/									
Off-premise use 2/ Meals & snacks 3/	1.7 -0.3	-0.9 1.6	0.1 3.7	-2.0 -0.8	0.3 1.8	0.5 1.9	-0.2 3.4	-0.2 3.2	<b>-0.1</b> 3.0

<sup>1/</sup> Food only (excludes alcoholic beverages). Not seasonally adjusted. 2/ Excludes donations & home production. 3/ Excludes donations, child nutrition subsidies, & meals furnished to employees, patients, & Inmates. P = preliminary. R = revised.

NOTE: This table differs from Personal Consumption Expenditures (PCE), table 2, for several reasons: (1) this series includes only food, excluding alcoholic beverages & pet food which are included in PCE; (2) this series is not seasonally adjusted, whereas PCE is seasonally adjusted at annual rates; (3) this series reports sales only, but PCE includes food produced & consumed on farms & food furnished to employees; (4) this series includes all sales of meals & snacks. PCE includes only purchases using personal funds, excluding business travel & entertainment. For a more complete discussion of the differences, see "Developing an Integrated Information System for the Food Sector," Agr. Econ. Rpt. No. 575, Aug 1987.

Information contact: Alden Manchester (202) 219-0758.

#### **Transportation**

Table 37.—Rail Rates: Grain & Fruit-Vegetable Shipments

		Annual		1993				1994		
	1991	1992	1993	Aug	Mar	Apr	May	enuL	July	Aug
Rall freight rate index 1/										
(Dec. 1984=100)	400.2	100.0	110.0	110.0	112.0	112.0	112.0	112.1 P	112.1 P	112.2 P
All products	109.3	109.9	110.9	110.9 113.3	114.8	114.3	114.3	114.1 P	113.7 P	113.4 P
Farm products	111.4	111.1	113.7 114.7		115.7	115.1	115.1	114.8 P	114.3 P	114.3 P
Grain	111.2	111.4		114.2	110.7	110.9	110.9	110.9 P	110.9 P	112.5 P
Food products	106.1	108.7	109.0	108.9	110.7	110.0	110.0	110.01	110.01	112.01
Grain shipments										
Rail cartoadings (1,000 cars) 2/	26.6	27.4	27.1	25.7	25.1 P	23.7 P	22.2 P	22.0 P	24.5 P	28.1
Barge shipments (mil. ton) 3/	3.3	3.4	2.6	1.3	2.4	2.9	2.8	2.5	3.3	3.1
Fresh fruit & vegetable shipments 4/5/	0.0		2.0							
Piggy back (mil. cwt)	1.5	1.8	1.4	0.8	1.4	1.4	1.9	2.0	1.6	1,3
Rail (mil. cwt)	2.1	1.8	2.2	1:0	2.5	1.8	2.5	3.1	2.2	1.8
Truck (mil. cwt)	41.9	44.0	44.8	39.4	46 0	54.2	51.9	52.7	39.3	36.5
Cost of operating trucks										
hauling produce 4/			407.0	450.5	400.4	400.0	127.8	127.4	127.5	126 0
Fleet operation (cts./mile)	128.5	124.1	127.2	128.2	128.1	128.2	127.0	127.4	127.0	120 0

<sup>1/</sup> Department of Labor, Bureau of Labor Statistics. 2/ Weekly average; from Association of American Railroads. 3/ Shipments on Illinois & Mississippi waterways, U.S. Corps of Engineers. 4/ Agricultural Marketing Service, USDA. 5/ Preliminary data for 1994. P = preliminary. — = not available.

Information contact: T.Q. Hutchinson (202) 219-0353

#### Indicators of Farm Productivity

Table 38.—Indexes of Farm Production, Input Use & Productivity 1/

	1983	1984	1985	1986	1987	1988	1989	1990	1991 1/	1992 2/
					1982=100					
Farm output All livestock Products Meat animals Dairy products Poultry & eggs	84 102 102 103 100	101 100 100 99 103	105 103 - 99 105 108	102 103 99 106 112	104 106 .100 105 122	97 108 102 107 125	108 110 102 106 130	112 112 102 109 138	112 114 105 109 144	=
All crops Feed crops Food grains Oil crops Cotton and cotton seed Tobacco Vegetables and melons Fruits and nuts Other crops	71 31 84 75 68 75 97 100	100 108 93 87 111 89 103 100	106 125 87 96 113 77 109 99	99 119 77 88 83 58 110 95	101 101 77 88 127 61 117 109	88 63 70 71 133 <del>69</del> 111 117	105 118 77 87 103 71 114 111	112 113 99 87 138 83 123 113	100 113 76 92 140 85 122 105	
Farm input Farm Labor Farm Labor Farm real estate Durable equipment Energy Agricultural chemicals Feed, seed, and livestock purchases Other purchased inputs	96 95 92 95 97 93 99	98 97 97 91 100 106 101	95 89 97 86 90 101 106	92 87 94 80 84 111	89 84 91 74 93 100 101	87 86 90 70 93 90 98	87 82 91 67 91 93	89 87 90 65 90 90	89 88 89 63 89 94 104	
,			99	89	92	90	96	97	100	-
Farm output per unit of input	88	103	1119	111	117	112	124	127	126	
Output per unit of labor Farm 3/ Nonfarm 4/	88 102	104 105	118 106	117 108	123 109	114 110	131 109	129 109	127 110	114

<sup>1/</sup> New data and methods were used to calculate the 1991 indexes and to revise them back to 1948. 2/ Preliminary. 3/ Economic Research Service.

4/ Bureau of Labor Statistics. — = not available.

Information contact: Rachel Evans (202) 501-8382.

#### Food Supply & Use

### Table 39.—Per Capita Consumption of Major Food Commodities 1/

Commodity	1985	1986	1987	1988	1989	1990	1991	1992	1993 P
•				P	ounds				
Red meats 2/3/4/	124,9	122.2	117.4	119.5	115.9	1123	111.9	114.1 62.8	111.9 61.5
Beel	74.6	74.4	69.6	68 6	65.4	64.0	63.1 0.8	0.8	0.8
Vesi	1.5	1.6	1.3	1.1	1.0	0.9	1.0	1.0	1.0
Lamb & mutton	1.1	1.0	1.0	1.0	1.0	1.0	46.9	49.5	48.7
Pork	47.7	45.2	45.6	48.8	48.4	46.4	58.0	60.0	61.1
Poultry 2/3/4/	45.2	47.1	50.7	51.7	53.6	56.0	43.9	45.9	47.1
Chicken	36.1	37.0	39.1	39.3	40.5	42 2 13.8	14.1	14.2	14,1
Turkey	9.1	10.2	11.6	12.4	13.1	15.0	14.8	14.7	14.9
Fish & shellfish 3/	15.0	15.4	16.1	15.1	15. <b>6</b> 30.4	30.1	30.0	30.2	30.1
Eggs 4/	32.9	32.6	32.7	31.8	30.4	30,1	90.0	00.2	00.1
Dairy products		00.4	24.4	23.7	23 8	24.6	25.0	26.0	26.3
Cheese (excluding cottags) 2/5/	22.5	23.1	24.1	11.5	11.0	11.1	11.1	11.3	11.4
American	12.2	12.1	12.4 7.6		8.5	9.0	9.4	10.0	9.8
Italian	6.5	7.0 4.0	4.1	8.1 4.1	4.3	4.5	4.6	4.7	5.0
Other chaese 6/	3.9		3.9	3.9	3.8	3.4	3.3	3.1	2.9
Cottage cheese	4.1	4.1	226.5	222.4	224.3	221.7	221.2	218.7	214.2
Beverage mitks 2/	229.7	228.6 116.5	111.9	105.7	97.6	90.4	87.4	84.2	80.5
Fluid whole milk 7/	123.4 93.7	98.6	100.8	100.5	106.5	108.4	109.9	109.5	107.0
Fluid lowfat milk 8/		13.5	14.0	16.1	20.2	22.9	23.9	25.0	26.7
Fluid skim milk	12. <b>6</b> 6.7	7.0	7.1	7.1	7.3	7.1	7.3	7.5	7.6
Fluid cream products 9/	4.1	4.4	4.4	4.7	4.3	4.1	4.2	4.3	4.3
Yogurt (excluding frozen)	18.1	18.4	18.4	17.3	16.1	15.8	18.3	16.3	16.1
Ice cream	6.9	7.2	7.4	8.0	8.4	7.7	7.4	7.1	6.9
ice milk	5.0	7.2	74		2.0	2.8	3.5	3,1	3 5
Frozen yogurt	-								
All dairy products, mlk	593.7	501.5	601.2	582.9	565.2	570.7	565.3	564.9	572.1
equivalent, milkfat basis 10/	64.3	64.4	62.9	63.0	60.4	62.2	63.8	65. <b>6</b>	65.0
Fats & oils — Total fat content Butter & margarine (product weight)	15.7	16.0	15.2	14.8	14.6	15.3	14.8	15.2	15.3
	22.0	22.1	21.4	21.5	21.5	22.2	22.4	22.4	22.9
Shortening Lard & edible tallow (direct use)	3.7	3.5	2.7	2.6	2.1	2.5	3.1	4.1	3.8
Saiad & Cooking oils	23.5	24.2	25.4	25.8	24.0	24.2	25.2	25.6	24.3
Fresh fruits 11/	111.0	117.7	120.6	121.5	123.2	117.1	113.0	122.7	124.3
Canned truit 12/	16.0	16.5	16.6	16.3	16.6	16.5	15.4	17.8	16.1
Dried fruit	3.0	2.8	3.1	3.3	3.2	3.4	3.1	2.8	3.2
Frozen fruit	3.0	3.4	3.6	3.3	3.7	3.5	3.4	3.6	3.5 73.2
Selected fruit juices 13/	67.6	89.4	71.5	71.8	67.3	80.0	69.0	63.6	13.2
Vegetables 11/								4440	410.0
Fresh	102.1	100.4	107.0	110.6	114.9	112.3	109.6	114.0	113.0 107.9
Canning	95.3	95.6	95.2	91.2	98.0	107.2	109.4	107.2	22.8
Freezing	19.6	18.6	19.3	21.2	20.0	20.5	21.8	21.0 132.4	135.7
Potatoes, all 11/	122.4	126.0	126.0	122.4	127.1	127.7	130.4	4.3	3.8
Sweetpotatoes 11/	5.4	4.4	4.4	4.1	4.1	4.6	4.0	6.2	6.0
Peanuts (shelled)	6.3	6.4	8.4	6.9	7.0	6.0	6.5 2.3	2.4	2.3
Tree nuts (shelled)	2.5	2.2	2.2	2.3	2.4	2.6 183.3	185.6	187.0	189.2
Flour & cereal products 14/	156.1	182.0	170.7	175.4	175.2	185.8	136.6	138.1	139.4
Wheat flour	124.6	125.6	129.8	131.7	129.4 15.2	18.2	18.8	16.9	17.5
Rice (milled basis)	9.0	11.6	14.0	14.3	135.9	139.6	140.6	143.8	147.1
Caloric sweeteners 15/	131.5	129.7	134.5	135.5	10.1	10.3	10.4	10.3	10.0
Coffee (green bean equiv.)	10.5	10.5	10.2	9.8	4.0	4.3	4.6	4.6	4.6
Cocoa (chocolate liquor equiv.)	3.7	3.8	3.8	3.8	4.0	4.0			

1/ in pounds, retail weight unless otherwise stated. Consumption normally represents total supply minus exports, nonfood use, & ending stocks. Calendar-year data except fresh citrus fruits, peanuts, tree nuts, & rice, which are on crop-year basis. 2/ Totals may not add due to rounding. 3/ Boneless, trimmed weight. Chicken series revised to exclude amount of ready-to-cook chicken going to pet food as well as some water leakage that occurs when chicken is cut up before packaging. 4/ Excludes shipments to the U.S. territories. 5/ Whole & part-skim milk cheese. Natural equivalent of cheese & cheese products. 6/ includes Swiss, Brick, Munster, cream, Neufchatel, Blue, Gorgonzola, Edam, & Gouda. 7/ Plain & flavored & buttermilk. 9/ Heavy cream, light cream, half & half, & sour cream & dip. 10/ includes condensed & evaporated milk & dry milk products. 11/ Farm weight. 12/ Excludes pineapples & berries. 13/ Single strength equivalent. 14/ includes rye, corn, oat, & barley products. Excludes quantities used in alcoholic beverages, corn sweetenere, & fuel. 15/ Dry weight equivalent. — = not available.

P = preliminary.

Information contact: Judy Jones Putnam (202) 219-0862.

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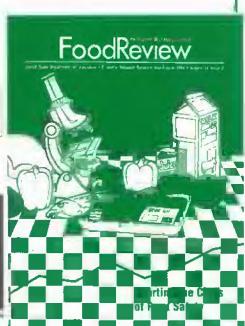
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